Remediation Action Plan
Stage 3, Green Square Town Centre
960A Bourke Street, Zetland, NSW

Mirvac Projects Pty Ltd

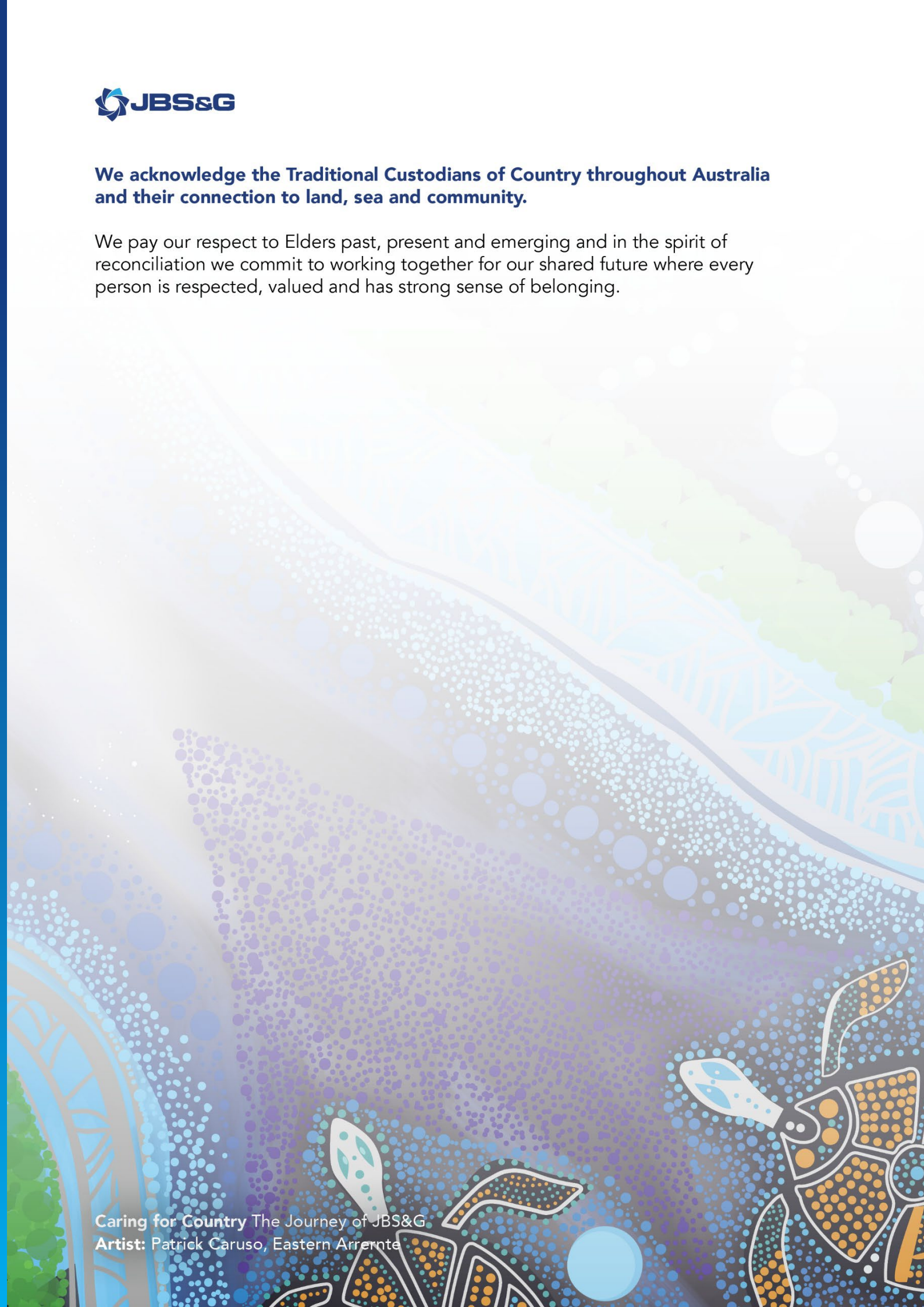
Report

69329 | 167900 (Rev 1)

5 November 2025

We acknowledge the Traditional Custodians of Country throughout Australia and their connection to land, sea and community.

We pay our respect to Elders past, present and emerging and in the spirit of reconciliation we commit to working together for our shared future where every person is respected, valued and has strong sense of belonging.



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Abbreviations

Term	Definition
ACM	Asbestos Containing Material
AF/FA	Asbestos Fines/Fibrous Asbestos
AEC	Area of Environmental Concern
AHD	Australian Height Datum
AQ	Asbestos Quantification
ASC NEPM	National Environment Protection (Assessment of Site Contamination) Measure 2013
ASS	Acid Sulfate Soils
bgs	Below Ground Surface
BTEX	Benzene, Toluene, Ethylbenzene and Xylenes
CEC	Cation Exchange Capacity
CLM Act	Contaminated Land Management Act 1997
CoC	Chain of Custody
CoPC	Contaminant of Potential Concern
CSM	Conceptual Site Model
DA	Development Application
DoH	WA Department of Health
DP	Deposited Plan
DQO	Data Quality Objective
DQI	Data Quality Indicator
EIL	Ecological Investigation Levels
EPA	NSW Environment Protection Authority
ESL	Ecological Screening Levels
GSTC	Green Square Town Centre
HILs	Health Investigation Levels
HSL	Health Screening Levels
JBS&G	JBS&G Australia Pty Ltd
LEP	Local Environmental Plan
LOR	Limit of Reporting
Mirvac	Mirvac Projects Pty Ltd
NATA	National Association of Testing Authorities
NEPC	National Environment Protection Council
OCPs	Organochlorine Pesticides
PAHs	Polycyclic Aromatic Hydrocarbons
PARCCS	Precision, Accuracy, Representativeness, Comparability, Completeness, Sensitivity
PCBs	Polychlorinated Biphenyls
PFAS	Perfluoroalkyl and polyfluoroalkyl substances
PID	Photo-ionisation detector
POEO Act	Protection of the Environment Operations Act 1997

Term	Definition
PSI	Preliminary Site Investigation
QA/QC	Quality Assurance/Quality Control
RAP	Remedial Action Plan
RPD	Relative Percent Difference
TRHs	Total Recoverable Hydrocarbons
VOCs	Volatile organic compounds

Executive Summary

JBS&G Australia Pty Ltd (JBS&G) was engaged by Mirvac Projects Pty Ltd (Mirvac, the Client) to prepare a Remediation Action Plan (RAP) for the property known as Stage 3 of the Green Square Town Centre (GSTC), herein referred to as the site. The site is located at 960A Bourke Street, Zetland, is legally defined as Lot 6 in Deposited Plan (DP) 1199427, and occupies an area of approximately 5,142 m².

A Detailed Site Investigation (DSI) completed by JBS&G (2025[1]) identified fill material requiring remediation and/or management to render the site suitable for its intended use. The proposed development includes build-to-rent (BTR) residential apartments across several multi-storey buildings, ground-floor retail, aboveground car parking, and a small utilities basement.

This RAP has been prepared to support the rezoning and State Significant Development Application (SSDA). It outlines the actions necessary to make the site suitable for the proposed land use, in accordance with the *State Environmental Planning Policy (Resilience and Hazards) 2021 (SEPP R&H 2021)* and relevant EPA-endorsed guidelines.

Objectives of the RAP

- Define the conceptual site model (CSM), including source–pathway–receptor linkages and potential areas of contaminant exposure, with consideration of the most conservative applicable land use (residential with limited accessible soils; NEPC 2013, Land Use Setting B).
- Identify the extent of remedial works required to facilitate redevelopment and outline remediation processes.
- Establish frameworks and methodologies for validation of remediation/management works, including protocols for unexpected contamination finds.
- Provide for the management of environmental and safety risks during remedial works and ongoing management requirements where contaminated materials are retained on-site.

The remediation strategy involves excavation and off-site disposal of fill material, representing a potential vapour migration risk. Following bulk earthworks, a capping/cover system will be implemented once reduced levels are achieved. Any surplus fill requiring management will be remediated through off-site disposal.

[1] *Green Square Town Centre, Stage 3, Mirvac Projects Pty Ltd, Detailed Site Investigation, reference 69329-167,608 (Rev A)*, JBS&G Australia Pty Ltd, 27 June 2025 (JBS&G 2025)

1. Introduction

1.1 Background

JBS&G Australia Pty Ltd (JBS&G) was engaged by Mirvac Projects Pty Ltd (Mirvac, the Client) to complete a Remediation Action Plan (RAP) for a property known as Stage 3 of the Green Square Town Centre (GSTC), herein referred to as the site. The site is located at 960A Bourke Street, Zetland, is legally defined as Lot 6 in Deposited Plan (DP) 1199427, and occupies an area of approximately 5,142 m². The site location and layout are shown on **Figure 1** and **Figure 2**, respectively.

The site has been the subject of a Detailed Site Investigation (DSI) (JBS&G 2025[2]), which reported fill material requiring remediation/management to enable the site to be considered suitable for its proposed use, including build-to-rent (BTR) residential apartments across several multi-storey buildings, ground-floor retail spaces, aboveground car parking, and a basement for utilities. This RAP has been developed to support the rezoning and State Significant Development Application (SSDA), by outlining the actions required to make the site suitable for the proposed land use, in accordance with the State Environmental Planning Policy (SEPP) Resilience and Hazards 2021 (SEPP R&H 2021) and relevant EPA-made or approved guidelines.

1.2 Objectives

The objectives of the RAP are to:

- Define the conceptual site model (CSM) of potential contamination source-pathway-receptor links for the proposed development, including identification of potential areas of contaminant exposure with consideration to the most conservative land use applicable to the site, being residential with limited accessible soils (NEPC 2013[3] Land Use Setting B).
- Define the extent of remedial works required to support redevelopment works and define remediation processes.
- Establish a framework and methodologies to validate the remediation/management of site contamination identified as posing a potential risk, including protocols for addressing unexpected contamination finds as may be encountered; and
- Include provision for management of environmental and safety risks during the implementation of the remedial works and requirements for ongoing management of contaminated materials if retained on the site.

1.3 Proposed Development

The proposed development (**Figure 3** and **Appendix A**) involves the following:

- Construction of several multi-storey residential apartment buildings with ground floor retail in areas, and a basement for utilities.
    - **Note**: Bulk excavation to accommodate the utilities basement is to approximately 11.5 m Australian Height Datum (AHD) in the northwest and 12.6 m AHD in the southeast. JBS&G understand the basement level will be tanked; and

[2] *Green Square Town Centre, Stage 3, Mirvac Projects Pty Ltd, Detailed Site Investigation, reference 69329-167,608 (Rev A)*, JBS&G Australia Pty Ltd, 27 June 2025 (JBS&G 2025)

[3] *National Environment Protection (Assessment of Site Contamination) Measure, Amendment No 1 (2013).* National Environment Protection Council (NEPC 2013)

- Establishment of landscaped areas (garden beds and paved extents) external to the building footprint.

Architectural plans are provided in **Appendix A**.

The proposed remedial works, as discussed herein, are being undertaken as ancillary to development, meaning consent will be obtained. Notwithstanding, in accordance with Clause 15 of the *State Environmental Planning Policy (Resilience and Hazards) 2021*, the remedial works are classified as Category 2 remediation. The classification reflects that the works are consistent with an approved Overarching RAP (JBS 2013[4]), are unlikely to result in significant off-site impacts, and do not trigger any of the thresholds outlined in Clause 16 that would otherwise categorise the works as Category 1 remediation.

1.4 Housing Delivery Authority Background

On 19 December 2024, the HDA was established by DPHI to accelerate the delivery of housing across NSW, under the E*nvironmental Planning and Assessment (Housing Delivery Authority) Order 2024*. This has provided a new State Significant Development pathway in which the proposed redevelopment can be undertaken.

The site was declared State Significant Development (SSD) pursuant to *State Significant Declaration Order 2025 (No 2)* issued on 26 February 2025. The order specifies development in EOI application 232525 dated 17 January 2025, including development for the purposes of mixed-use development comprising commercial premises and residential accommodation with the provision for affordable housing and build to rent at 960A Bourke Street, 6 Geddes Ave and 411 Botany Road, Zetland, as identified in Schedule 18, is declared to be SSD.

The HDA SSD pathway has been established to accelerate the delivery of housing and requires that the subject SSD is lodged within 9 months from receipt of the Secretary's Environmental Assessment Requirements (SEARs). Current SEARs for the project were issued for Early Works on 15 April 2025 (SSD-82328958), Sites 7, 17 and 18 (the site) on 15 May 2025 (SSD-83899206) and for Sites 8 and 19 on 15 May 2025 (SSD- 84322496).

The key features of the Mirvac Green Square HDA proposal are to include:

- Detailed development consent for the purposes of a mixed-use development, with significant residential components comprising build-to-sell and build-to-rent dwelling stock and ground floor non-residential uses.
- Delivery of between 1,000 to 1,200 dwellings across 9 buildings in low-rise and high-rise tower formats.
- Delivery of Affordable Housing dwellings.
- Delivery of the components in two-stage detailed SSDA process.

In conjunction with the SSDA, a State-assessed rezoning process is intended to include the following:

- Revisions to mapped building heights with selected increases.
- Increase the mapped floorspace ratio (FSR) across the combined site.
- Removal of Clause 4.4A relating to specific gross floor area (GFA) land use limitations in mapped areas.

[4] *Overarching Remedial Action Plan, Green Square Town Centre.* Prepared by JBS Environmental Pty Ltd dated September 2013 (JBS 2013)

1.5 Secretary's Environmental Assessment Requirements

In accordance with section 4.39 of the Environmental Planning & Assessment Act 1979 (EP&A Act), Secretary's Environmental Assessment Requirements (SEARs) (SSD-83899206) (Civil, Excavation and Remediation Works SSDA) have been issued. This report has been prepared to respond to the issued SEARs, as set out in **Table 1.1**.

Table 1-1: SSD-82328958 SEARS

SEARS	Response / Location in Report
Condition 13: Contamination and Remediation *In accordance with Chapter 4 of the State Environmental Planning Policy (Resilience and Hazards) 2021, assess and quantify any soil and groundwater contamination and demonstrate that the site is suitable (or will be suitable, after remediation) for the development*	Refer to Sections 2 – 13

2. Site Identification and Surrounding Land Use

2.1 Site Identification

The site location is shown in **Figure 1**. The site layout and cadastral boundaries are shown in **Figure 2**. Site identification details are summarised in **Table 2.1** below, and the site setting is described in the sections following.

Table 2.1: Site Identification Information

Item	Details
Lot/DP	Lot 6 DP 1199427
Address	960A Bourke Street, Zetland, NSW
Area	5,142 m²
Site Geographic Coordinates (GDA2020)	Refer to **Figure 2**
Approximate Relative Level (RL) m Australian Height Datum (AHD)	14.78 to 19.22
Local Government Authority (LGA)	The Council of the City of Sydney
County/Parish	Cumberland/Alexandria
Land Ownership	Mirvac
Site Zoning	MU1 - Mixed Use (Sydney Local Environmental Plan (Green Square Town Centre) 2013[5])
Previous Land Uses	Historically, the site operated as a quarry that was progressively backfilled with inert waste. It was subsequently used to house a Council incinerator and police facilities. More recently, the site has been used as a construction staging compound and car park following the decommissioning of the incinerator and police facility
Current Land Uses	Vacant land sealed with asphalt, featuring a pedestrian easement (thoroughfare) running through the central portion of the site
Proposed Land Uses	Mixed Use (residential BTR and retail with a small basement for utilities)

2.2 Site Condition and Setting

A summary of the site condition and the surrounding environment is provided in **Table 2.2**. Site condition and environmental setting information has been summarised from the DSI (JBS&G 2025) and historical assessment reports (JBS&G 2018[6] and JBS&G 2023a[7]).

Table 2.2: Summary of Site Condition, Setting and Surrounding Land Use

Item	Summary
Condition	The site is secured by wooden construction fencing. The site is predominantly sealed with asphalt hardstand pavement. An earthen

[5] *Sydney Local Environmental Plan (Green Square Town Centre) 2013*. As amended by State Environmental Planning Policy Amendment (Land Use Zones) (No 2) 2022, commenced 26 April 2023.

[6] *Development Blocks 7,17 & 18 Remedial Action Plan, Green Square Town Centre*, JBS&G Australia Pty Ltd, Ref. 51735/119288 (Rev 2), 15 November 2018 (JBS&G 2018)

[7] *Additional Characterisation Assessment Stages 3 and 4, Green Square Town Centre*, JBS&G Australia Pty Ltd, Ref. 62236/150749 Rev 0, dated 9 June 2023 (JBS&G 2023a)

Item	Summary
	stormwater detention basin is located within the northwestern site extent. A public pedestrian throughfare divides the site from east to west.
Surrounding Land Uses	The surrounding land uses are described as follows: • North: Ebsworth Street and Tweed Place, across which are mixed-use (residential and retail) developments with basement car parking. • East: Ebsworth Street, across which are mixed-use (residential and retail) developments with basement car parking. • South: Green Square Library and Plaza. Further afield is Stages 4 and 5 of the GSTC, comprising vacant construction yards proposed to be developed for mixed-use (residential and commercial) land use. • West: Green Square Library and Plaza, followed by Botany Road, across which are several industrial properties and Green Square
Topography (m Australian Height Datum (AHD))	Ground elevation ranges from approximately 19.2 m AHD at the southeastern extent of the site to around 14.7 m AHD within the northwestern site extent. The northwestern corner of the site has an elevation of 15.3 m AHD[8].
Geology and Soil	**Geology and Soils** Based on the 1:100,000 Sydney Geological Survey Sheet 9130 (1983[9]), the site is underlain by Quaternary sediments known as the Botany Sand Beds (BSBs). These consist of unconsolidated to semi-consolidated, permeable, medium- to fine-grained quartz marine sands with minor shell fragments and podzols. Peat, peaty sands, silts, and clays appear more frequently in the lower layers. The BSBs can reach thicknesses of 30–60 m and typically overlie Hawkesbury Sandstone. Regional soil mapping (DLWC 2002[10]) indicates that soils in the area belong to the Tuggerah Soil Landscape Group, characteristic of coastal dune fields with slopes generally between 1–10%, occasionally up to 35%. These soils comprise deep podzols and podzol/humus podzol intergrades, with low fertility, high permeability, and susceptibility to wind and wave erosion. Native vegetation has been largely cleared. **Fill and Natural Materials** Fill across the site is variable and comprises heterogeneous gravels, silty and sandy clays, and clayey sands at varying depths (**Figure 4**). Construction debris, including bricks, metals, tiles, ceramics, glass, crushed sandstone, boiler ash, and slag, has been identified within the fill profile, with fill material historically progressively imported to backfill former quarry operations. Beneath the fill, natural soils consist of heterogeneous brown clayey sands overlying Hawkesbury Sandstone and shale bedrock.
Acid Sulfate Soil (ASS)	Based on a review of the Botany Bay Acid Sulfate Soil Risk Map (DLWC 1997[11]), the site lies within an area of 'no known occurrences of acid sulfate soil materials.

[8] *Detail & Contour Survey Upon Lot 6 in DP 1199427, Rev A*, ADW Johnson Pty Ltd, dated 15/07/2019 (ADWJ 2019)
[9] *1:100 000 Sydney Geological Map Sheet 9130 Edition 1*. Department of Mineral Resources, Published 1983 (DMR 1983)
[10] *1:100 000 Sydney Soil Landscape Series Sheet 9130 (second edition)*. Department of Land and Water Conservation 2002 (DLWC 2002)
[11] *Acid Sulfate Soil Risk Map – Edition Two, Botany Bay*. Department of Land and Water Conservation, published December 1997 (DLWC 1997)

Item	Summary
	Given the site's geological and soil characteristics, and in light of this classification, specific management measures for actual or potential acid sulfate soils (ASS/PASS) are not required for development activities. The nearest identified occurrence of ASS is within the sediments of Alexandra Canal, approximately 1.2 km southwest of the site.
Hydrology	The nearest surface water receptor is Sheas Creek (brackish water body), located approximately 240 m to the west of the site. Sheas Creek flows to Alexandra Canal, which flows into the Cooks River (marine), approximately 4.9 km to the southwest, which ultimately discharges into Botany Bay (marine), located around 5.8 km from the site. Currently, impervious pavements cover more than 95% of the site, resulting in rainfall being largely managed by the existing stormwater infrastructure. Runoff is directed toward the road drainage network or Library/Plaza before entering the broader regional stormwater system. It is understood that regional stormwater is conveyed via underground infrastructure that ultimately discharges into Alexandra Canal. In the unsealed areas of the site, rainfall is expected to infiltrate the relatively permeable sandy fill soils. Any excess surface runoff from these areas is anticipated to enter the surrounding stormwater system, contributing to overall drainage toward Alexandra Canal.
Hydrogeology	Two main groundwater systems exist in the vicinity of the site and more broadly across the BSBs: • A shallow, unconfined to semi-confined aquifer system resident within the unconsolidated sediments of the BSBs; and • A deep confined groundwater system resident in the fractures / porous Hawkesbury Sandstone / Shale which form the base of the Botany Basin aquifer. Past investigations at the site have reported a shallow unconfined aquifer in fill material, encountered from approximately 4 to 6 m bgs (approximately between 9 to 15 m AHD), and a deeper confined aquifer located in fractures and joints within the Hawkesbury Sandstone/Shale. Consistent with the historical extensive use of groundwater in the Botany Sands aquifer, a significant number of registered groundwater wells have previously been identified in the proximity of the site. A review of the *Temporary Water Restriction (Botany Sands Groundwater Source) Order 2024* map (NSW DPIE 2024[12]) indicates that the site is located within Area 2 of the Botany Sand Aquifer Restriction Area. The NSW Department of Primary Industry and Environment (NSW DPIE) indicates that "chemicals such as chlorinated hydrocarbons and other solvents, petroleum hydrocarbons (such as petrol and diesel), and some heavy metals such as chromium, nickel, lead and arsenic, have polluted groundwater in parts of the aquifer". Domestic use of groundwater in Areas 1 and 2 is prohibited. Conditions are also in place for taking water for non-domestic uses and specified industrial water access licences. Based upon local topographical features and groundwater data available from historical assessment of the site, groundwater flow is anticipated to occur in a westerly / south-westerly direction and is likely influenced locally by a former dam alignment and former quarrying activities.

[12] *Temporary Water Restriction (Botany Sands Groundwater Source) Order 2024*, NSW Department of Industry (NSW DI 2022)

Item	Summary
Meteorology	The Sydney area has a humid to temperate climate with a seasonal rainfall maximum during the summer and autumn months. The average annual rainfall for Sydney Airport Station is 1096 mm (BOM 2025[13]). The area has a history of droughts, which are broken by periods of heavy rainfall resulting in significant recharges to groundwater resources. The 1940s and 1980s, and the current decade, are observed to be dry periods, while the early 1970s and 1990s were wet periods. Summer winds are north-easterly with southerly thunderstorms common. Winter winds are westerly.

[13] *Bureau of Meteorology, Climate statistics for Australian locations, Sydney Airport AMO*, http://www.bom.gov.au/climate/averages/tables/cw_066037.shtml, accessed 15 May 2025 (BOM 2025)

3. Site History and Previous Investigations

3.1 Site History

The following presents a summary of the site history, as presented in the JBS&G DSI (2025), with relevant features shown on **Figure 2** where applicable.

- **1818–1830s**: The site and surroundings were developed, accommodating Waterloo Mill (grain, then wool washing). The site became part of a Crown land grant, later absorbed into the Waterloo (Cooper) Estate. The Waterloo Dam was present.
- **1880–1900**: Nearby land subdivided for residential use (Zetland Estate). Geddes Wool Scouring Works occupied parts of the site. The area was characterised by various industrial uses (e.g., wool washing, brick yards, chemical works).
- **1910–1930s**: The Industrial Brick Company purchased the site and quarried it for brickmaking. Voids were progressively backfilled with inert waste. Portions were sold to Waterloo Council in 1930.
- **1930–1966**: Activities included former quarrying and backfilling, and industrial uses (e.g., automotive, scrap metal), followed by the construction of the Incinerator and Police Sites.
- **1980–2013**: Transferred to Minister for Public Works; more police-related infrastructure was added, including USTs. Hazardous materials were removed from structures prior to demolition of buildings to slab level in 2013.
- **2014**: Petroleum infrastructure and contaminated soils were excavated and remediated under a Voluntary Planning Agreement (VPA) as documented in JBS&G (2014b and 2015).
- **2007–present**: Site backfilled with a mix of site fill and imported environmentally suitable fill used as an interim cap, and sealed with an asphalt hardstand.

3.2 Previous Investigations

A detailed list and chronology of previous investigations, including Site Auditor review/endorsement of previous reports, is provided in the JBS&G DSI (2025)**.** The following presents a summary of the key findings from those investigations.

- **Sample Density:**
  For an area of 5,142 m², the NSW EPA (2022[14]) *Sampling Design Guidelines* recommend a minimum of 15 systematic soil sampling locations for the detection of circular contamination 'hotspots'. Historically, 69 sample locations have been advanced across the site. Historical investigations have been the subject of quality assurance/quality control (QA/QC) evaluation, with the data considered to be of an acceptable quality for site characterisation.
- **Soil Contamination**:
  Fill material across the site has been reported to be impacted to varying degrees with heavy metals, TRHs/TPHs, PAHs, and asbestos (bonded and friable), generally exceeding the adopted ecological criteria, and in some instances, the human health criteria. Analytical results are presented in **Summary Tables**. Soil sample locations are shown on **Figure 3**.

[14] *Sampling Design Part 1 Application.* NSW EPA Contaminated Land Guidelines 2022 (EPA 2022)

- **Soil Leachability**:
  Most detected constituents in fill were reported to contain non-to-low leachable properties and suitable for on-site retention under a cap/cover remedial strategy (JBS&G 2018b, 2022[15]).
- **Extent of Fill/Soil Impact**:
  With regards to the development scenario (i.e. the basement extent, **Section 1.3**), fill material located at, and in proximity to, sample locations BH509 and BH512 contains minor elevations of volatile TRH constituents (F1 and F2 fractions) exceeding the adopted site assessment criteria. These minor elevations will require remediation/management to facilitate the proposed site-wide management strategy (cap/cover) and the current development layout (i.e., basement extent).

  For the balance of site-won soils, there is no discernible pattern or distribution to impacts; as such it is considered appropriate to identify the fill material as a whole as impacted rather than refer to the presence of hotspots, given the number and distribution of contaminant detections above the assessment criteria. Natural material underlying the fill was not reported to be impacted to the extent requiring remediation. Where impact was encountered, it was limited to the upper 0.1 m and likely associated with the site sampling methodology involving boreholes.
- **Groundwater Quality**:
  Elevated concentrations of heavy metals, ammonia, and trace PFAS (broader GSTC) were detected in groundwater within the GSTC, but were considered to originate from upgradient/regional sources. These impacts were not found to pose a risk to human health or the environment. Groundwater extraction is currently prohibited, as the site lies within Area 2 of the Botany Sands Groundwater Source. Groundwater is not considered to require remediation based on the conclusions of the JBS&G DSI (2025).
- **Ground Gas**:
  Ground gas levels within the fill were low, with minimal off-site migration. No additional assessment for methane generation was deemed necessary.
- **Soil Vapour**:
  No soil vapour contamination has been identified at the site.
- **PFAS**:
  Based on previous investigations and the Interim Audit Advice (IAA), PFAS levels in soil within the GSTC have not been reported at concentrations requiring remediation or management. No further fill/soil investigations were considered necessary. While regional groundwater impacts have been identified (off-site of Stage 3 but with the GSTC), they were do considered to represent an unacceptable risk warranting remediation. The site is not listed on any public PFAS registers but is located within Area 2 of the Botany Sands Groundwater Source, meaning groundwater extraction is precluded for domestic uses.
- **Site Audit and Remedial Strategy**:
  Several NSW EPA-accredited Site Auditors have issued IAA and/or Section B SASs/SARs endorsing a cap/cover remedial strategy for the site/GSTC and characterising activities undertaken to date, including the in-situ waste classification documentation.
- **Asbestos**:
  Fill materials have been reported to be impacted with both bonded and friable asbestos in exceedance of the NEPC (2013) HSL B criteria for the proposed land use.

[15] *Human Health and Ecological Risk Assessment Stage 3 and 4 Early Works – Green Square Town Centre, 960A Bourke Street & 377 Botany Road, Zetland NSW*, JBS&G Australia Pty Ltd, Ref. 62236/144314 Rev C, 12 September 2022 (JBS&G 2022)

4. Conceptual Site Model

NEPC (2013) identifies a CSM as a representation of site-related information regarding contamination sources, receptors and exposure pathways between those sources and receptors. The development of a CSM is an essential part of all site assessments. NEPC (2013) identifies the essential elements of a CSM as including:

- Known and potential sources of contamination and contaminants of concern, including the mechanism(s) of contamination.
- Potentially affected media (soil, groundwater, vapours, etc.).
- Human and ecological receptors.
- Potential and complete exposure pathways; and
- Any potential preferential pathways.

Based on the available information and the findings of previous investigations, the following CSM for the site has been presented in **Table 4.1.**

Table 4.1: Conceptual Site Model

CSM Aspects	Summary of Available Information
Known and Potential Site Contamination Sources	**Fill/Soil Materials** Fill materials resultant from historical site activities and/or imported to backfill the former quarry have been reported to be impacted, requiring remediation/management. The depth of fill is shown on **Figure 4**. Natural soils were generally unaffected. Where impact was encountered, it was limited to the upper 0.1 m and likely associated with the site sampling methodology involving boreholes. **Groundwater** Previous assessments have identified impacts to groundwater from a range of contaminants; however, remediation was not considered necessary. Two groundwater systems have been identified: a shallow aquifer within the Botany Sands Beds (BSB) and associated fill material used to backfill the former quarry, and a deeper confined aquifer within the underlying sandstone bedrock. Standing water levels (SWLs) in the shallow aquifer ranged from 11.86 m AHD in the southeastern part of the site to 9.31 m AHD in the western extent. Regional groundwater flow within the deeper confined sandstone and shale bedrock is anticipated to occur in a south-westerly direction, consistent with surface topography, toward Botany Bay and the Shea's Creek/Alexandra Canal system.
Potentially Affected Site Media	**Fill Material**: Site fill located at, and in proximity to sample locations BH509 and BH512 have been identified to contain minor elevations of volatile TRH constituents (F1 and F2 fractions) in excess of the adopted site assessment criteria under the development scenario. For the balance of site-won soils, site fill has been found to be impacted with heavy metals, asbestos (bonded and friable), semi to non-volatile TRH/TPH and PAHs. There is no discernible pattern or distribution to impacts; as such, it is considered appropriate to identify fill (beyond BH509 and BH512) as a whole as impacted. **Groundwater**: Groundwater underlying the site has been found to have a range of heavy metals, minor hydrocarbons and ammonia. In addition, trace concentrations of per- and poly-fluoroalkyl substances (PFAS) above the adopted criteria (reported in broader GSTC), consistent with regional

CSM Aspects	Summary of Available Information
	background levels. The site was not identified as contributing to reduced groundwater quality.

Human and Ecological Receptors	The key receptors which would be exposed to potential impact on the site include both human and ecological receptors.
	The primary human receptors include:
	• future users of the site, including residents, on-site intrusive maintenance or construction workers;
	• Off-site human receptors include:
	  ○ Off-site residents, and users of the adjacent residential properties;
	  ○ Off-site intrusive maintenance or construction workers; and
	  ○ Commercial/industrial workers of the properties.
	Ecological receptors include:
	• Off-onsite groundwater-dependent ecosystems. No key ecological receptors are identified on the site, with the site largely paved.
	The nearest surface water receptor is Sheas Creek (brackish water body), located approximately 250 m to the west of the site. Sheas Creek flows to Alexandra Canal, which flows into the Cooks River (marine), approximately 4.9 km to the southwest, which ultimately discharges into Botany Bay (marine), located around 5.8 km from the site.
	The site is located within Area 2 of the Botany Sand Aquifer Embargo Area, designated due to known or suspected contamination from past industrial activity.

Potential and Complete Exposure Pathways	The potential pathways of concern for fill impact to pose a risk to future on-site occupiers and off-site receptors include: • Oral and dermal direct contact with impacted soils and groundwater. • Vapour intrusion into future site structures of hydrocarbons. • Inhalation of airborne contaminants (including airborne asbestos fibres). • Lateral groundwater migration off-site or vertical migration.
Preferential Pathways for Contamination Migration	For the purposes of this RAP preferential pathways have been defined as natural and/or man-made pathways that result in the preferential migration of COPC as either solids, liquids, or gases. Man-made preferential pathways are present within the site as associated with current/future underground infrastructure or service trenches adjacent to the site's boundary or potentially traversing the site to adjacent properties. Potential remains for vertical migration of COPCs associated with fill materials to groundwater, albeit limited based on previous investigations.
Potential for Offsite Migration	The COPC identified during previous investigations are generally present in solid form (e.g. heavy metals, bonded asbestos, PAHs). As such, there is currently considered to be minimal potential for contamination migration by wind-blown dust and surface water movement. In addition, the site is currently primarily paved and will continue to be primarily paved following the proposed development by way of the constructed basal slab across the development footprint and/or hardstand pavements. The potential for contamination migration via surface water movement and infiltration of water and subsequent migration through the soil profile of solid form contaminants, as well as liquid form contaminants such as TRH/TPH is considered generally to be low, given the proposed extent of impermeable pavements at the site.

5. Remedial Options

5.1 Remedial Goals

The goal of the site management/remediation works is to ensure that the following is achieved:

- Prevention of exposure of human populations occupying/working on/using the site to potential contamination on or underlying the site.
- Appropriate management and/or disposal of soil and/or water disturbed during development activities in accordance with in-force regulations and relevant EPA guidelines.
- Removal of potential ongoing sources of environmental contamination.
- Validation of site management and remedial works in accordance with the relevant EPA guidelines; and
- Documentation of works, as completed, is appropriate to demonstrate the suitability of the site for the proposed land use and compliance with applicable legislation, regulations, guidelines and development consent conditions as may apply to the site.

5.2 Guidance Framework

The RAP has been prepared with consideration to the following list of NSW EPA-endorsed guidelines:

- *National Environment Protection (Assessment of Site Contamination) Measure 1999, Amendment No.1 2013*, National Environment Protection Council (NEPC 2013).
- *Sampling Design Guidelines Part 1 – Application: Contaminated Land Guidelines,* NSW EPA August 2022 (EPA 2022).
- *Consultants Reporting on Contaminated Land, Contaminated Land Guidelines,* NSW EPA 2020, April 2020, updated 5 May 2020 (EPA 2020).
- *Contaminated Sites: Guidelines for NSW Site Auditor Scheme, 3rd edition*, NSW EPA October 2017 (EPA 2017),
- *Protection of the Environment Operations (Underground Petroleum Storage Systems) Regulation 2019*.

In addition, consideration is also required to guidelines made or endorsed by the EPA under the Protection of the Environment Operations (POEO) Act 1997 and associated regulations, including:

- *Waste Classification Guidelines Part 1 to Part 4*. NSW EPA 2014 (EPA 2014a/b/c/d).

Other guidance that have also been considered in relation to site conditions includes:

- *Work Health and Safety Act 2011*, *Work Health and Safety Regulation 2017*.
- *Code of Practice: How to Safely Remove Asbestos*. SafeWork NSW, December 2022 (SafeWork 2022a).
- *Code of Practice: How to Manage and Control Asbestos in the Workplace*, SafeWork NSW, December 2022 (SafeWork 2022b).

5.3 Rationale for Selected Remedial Option

The preferred hierarchy of options for remediation (clean up) and/or management adopted by NSW EPA has been established within the NEPC (2013) Assessment of Site Contamination Policy Framework as follows:

- On-site treatment of the material so that the contaminant is either destroyed or the associated risk is reduced to an acceptable level; and

- Off-site treatment of excavated material so that the contaminant is either destroyed or the associated hazard is reduced to an acceptable level, after which the soil is returned to the site; or

If the above options are not practicable:

- Consolidation and isolation of the material on-site by containment with a properly designed barrier; and
- Removal of contaminated material to an approved site or facility, followed, where necessary, by replacement with appropriate material; or
- Where the assessment indicates remediation would have no net environmental benefit or would have a net adverse environmental effect, implementation of an appropriate management strategy.

In addition, when deciding which option to choose, consideration is also required to be given to the sustainability (environmental, economic and social) aspects of each option to ensure an appropriate balance between the benefits and effects of undertaking remedial/management options. In cases where there is no readily available or economically feasible method is available for remediation, it may be possible to adopt appropriate regulatory controls or develop other forms of remediation.

The Overarching RAP (JBS 2013) for the GSTC presented a remediation/site management strategy whereby impacted fill representing a migration risk, or surplus to development, would be remediated via off-site disposal to a facility lawfully able to accept it, with the balance of fill material capped in situ to assist with ecologically sustainable development and waste minimisation objectives.

Based on the findings of previous investigations, fill material across the site has been reported to be impacted with heavy metals, PAHs, TRHs/TPH and asbestos (bonded and friable) above the adopted ecological criteria and to a lesser extent the human health criteria for residential with minimum access to soil (HIL-B).

Therefore, consistent with the Overarching RAP (JBS 2013), the following remedial approach has been selected:

- Excavation and disposal of impacted fill materials surplus to design requirements to an appropriately licensed waste facility;
- Excavation and, off-site disposal to an appropriately licensed waste facility of identified hydrocarbon impacts exceeding the relevant site assessment criteria and representing a potential vapour inhalation risk; and
- Installation of a physical barrier preventing access to residual fill material remaining in-situ, followed by implementation of a long-term Environmental Management Plan (EMP). It is envisaged that two EMPs will be prepared, one for land to be dedicated to Council, as discussed herein, and another for the balance of the site.

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5.3.1 Requirement for Remediation

JBS&G acknowledges that several fill samples exceed the adopted HSL criteria; however, when considering the final development levels, including the utilities basement, only samples BH509 (5.0 m bgs [12.7 m AHD]) and BH512 (3.5 m bgs [15.5 m AHD] and 4.5 m bgs [14.5 m AHD]) are assessed as presenting a potential vapour intrusion risk due to their proximity to the proposed basement footprint and/or at-grade structures.

Previous revisions of the RAP for Stage 3 did not specifically address HSLs, as a basement was then proposed across the majority of the site. Under that scenario, fill was largely remediated through excavation and off-site disposal, with any residual fill impacted by PAHs, TRH, heavy metals, and asbestos managed via implementation of a physical barrier to prevent oral and dermal contact with the underlying material.

Under the current development scenario, only BH509 (5.0 m bgs [12.7 m AHD]) and BH512 (3.5 m bgs [15.5 m AHD] and 4.5 m bgs [14.5 m AHD]) are considered to represent a potential vapour intrusion risk. All other samples, when assessed against the final finish levels and their offset from the proposed basement, are not considered to pose an unacceptable risk (or will be removed to accommodate the basement).

The balance of the site, where exceedances of HILs, EILs, ESLs, and Management Limits occur, is proposed to be remediated through a cap/cover (physical barrier) remedial strategy, supported by a long-term Environmental Management Plan (EMP). Previous investigations have confirmed that site fill material is suitable to remain in-situ provided that appropriate procedures are implemented through the EMP, as supported by prior IAA.

Given the proposed remedial strategy, the source–pathway–receptor linkage will be broken. Therefore, provided the physical barrier is maintained in accordance with the EMP, and following the removal of fill at BH509 (5.0 m bgs [12.7 m AHD]) and BH512 (3.5 m bgs [15.5 m AHD] and 4.5 m bgs [14.5 m AHD]), the site fill is not considered to pose an unacceptable human health risk. All future flora is proposed to be within constructed garden beds located above the physical barrier (or form part of the physical barrier), in imported, environmentally suitable growing media.

Furthermore, previous investigations, including the most recent DSI (JBS&G 2025 reference), have confirmed that the site fill material does not represent an unacceptable migration risk to groundwater.

Further discussion of sample locations BH509 and BH512, including their relationship to site structures and the adopted criteria, is provided following:

- Sample location BH509, at 5.0m bgs (12.7 m AHD), reported F2 (C10-C16, less Naphthalene) at a concentration of 180mg/kg. This location is predominantly within the footprint of the future basement; however, the extent of impact extends both deeper than the proposed basement level and may extend further east. Therefore, the fill material at this location may represent a vapour intrusion risk. i.e. less than 1 m vertically to the receptor. As such, the following screening criterion has been applied: NEPM 2013 Table 1A(3) for Res A/B Soil Human health screening levels (HSL) for vapor intrusion in sandy soil (0-1m), which has a screening value of 110 mg/kg.
- Sample location BH512, at 3.5m bgs (15.5 m AHD), reported F2 (C10-C16, less Naphthalene) at a concentration of 1,370 mg/kg. With consideration to the location/depth of this identified contaminant, less than 1 meter both vertically and laterally to receptor (basement occupants), the following screening criterion has been applied: NBEPM 2013 Table 1A(3) for Res A/B Soil Human health screening levels (HSL) for vapor intrusion in sandy soil (0-1m) which has a screening value of 110 mg/kg.
- Sample location BH512, at 4.5m bgs (14.5 m AHD), reported F2 (C10-C16, less Naphthalene) at a concentration of 1,238 mg/kg. With consideration to the location/depth of this identified contaminant, less than 1 meter both vertically and laterally to receptor, the following screening

criterion has been applied: NBEPM 2013 Table 1A(3) for Res A/B Soil Human health screening levels (HSL) for vapor intrusion in sandy soil (0-1m) which has a screening value of 110 mg/kg.

5.4 Extent of Remediation

Following excavation/offsite disposal to establish reduced levels for the development scenario, including the basement, the following areas have been identified as requiring remediation/management:

- **AEC 1** - Fill material at the site is impacted with heavy metals, PAHs and asbestos exceeding the ecological criteria and, to a lesser extent, health-based criteria. There are no discernible pattern and distribution of contaminants within the fill material, and the impact is not confined to any particular portion(s) of the site. As such, all fill material is considered to require remediation/management.
- **AEC 2** – Fill material at BH509 (5.0 m bgs [12.7 m AHD]) and BH512 (3.5 [15.5 m AHD] and 4.5 m bgs [14.5 m AHD]) contains volatile constituents that present a potential vapour migration risk under the development scenario, as outlined in **Table 5.1** and shown in **Figure 6**.

Table 5.1: TPH/TRH Remedial Areas

AEC 2 - Sample Location	Area	Depth
BH509	<100 m^2 (see co-ordinates on **Figure 6**)	5.0 m bgs to 5.75 m bgs (12.7 m AHD to 11.95 m AHD)
BH512	<100 m^2 (see co-ordinates on **Figure 6**)	3.5 m bgs to 5.5 m bgs (15.5 m AHD to 13.5 m AHD)

6. Regulatory and Planning Requirements

The following planning requirements for the proposed remedial works are presented.

***Environment Planning and Assessment Act 1979*/Resilience and Hazards SEPP 2021**

The proposed remedial works are being undertaken as ancillary to development, meaning consent will be obtained. Notwithstanding, in accordance with Clause 15 of the *State Environmental Planning Policy (Resilience and Hazards) 2021*, the remedial works are classified as Category 2 remediation. The classification reflects that the works are consistent with an approved Overarching RAP (JBS 2013[16]), are unlikely to result in significant off-site impacts, and do not trigger any of the thresholds outlined in Clause 16 that would otherwise categorise the works as Category 1 remediation.

***Environment Planning and Assessment Regulation 2000* – Schedule 3 Designated Development**

The proposed remediation works do not constitute designated development.

It is not anticipated that the proposed remediation works will incorporate any on-site treatment of soil. However, in the event that soil is required to be pre-treated prior to off-site disposal, an assessment of potential triggers for the works to be designated development as presented in Schedule 3 – Clause 15 will be required to be completed.

Protection of the Environment Operations Act 1997

All potential discharges from the site during remediation works will be required to be maintained below applicable assessment criteria/threshold guidelines during the remediation works. This would apply to potential emissions in air, water and discharges to groundwater. Levels of discharges are typically assessed at a site boundary.

The proposed remediation/validation activities are not required to be licensed under the Protection of the *Environment Operation Act (1997)*. The site is less than 3 ha in area, does not store greater than 30,000 m^3 of contaminated fill and hence does not trigger the licensing requirements.

City of Sydney (2004) '*Contaminated Land Development Control Plan*'

The Council Development Control Plan (DCP) provides a number of environmental and site management provisions required to be employed during remediation works. These will require to be adopted as minimum standards for the environmental management of remediation works and requirements of ongoing EMPs.

Water Management Act 2000

Should dewatering be required, a dewatering and potentially a re-injection approval will be required from the NSW Department of Primary Industry - Water (DPI-Water) for any dewatering proposed with the site remediation works. The approval will require to be obtained prior to the undertaking of any groundwater dewatering and treatment. At this stage, based on the development plans it is not anticipated that dewatering will be required.

Protection of the Environment Operations (Waste) Regulation 2014

The regulations make requirements relating to non-licensed waste activities and waste transport. The proposed works will not require to be licensed. Section 48 of the Reg. requires that wastes are stored in an environmentally safe manner. It also stipulates that vehicles used to transport waste must be covered when

[16] *Overarching Remedial Action Plan, Green Square Town Centre.* Prepared by JBS Environmental Pty Ltd dated September 2013 (JBS 2013)

loaded. This regulation also details additional tracking requirements for vehicles carrying Special (Asbestos) waste.

Provision is provided in the Regulation and EPA (2014) guidelines for the NSW EPA to approve the immobilisation of contaminants in waste (if required).

It is noted that no waste will be received at the site and only Virgin excavated natural material (VENM), excavated natural material (ENM) or materials covered by a NSW EPA exemption will be imported to the site.

***Waste Classification Guidelines* (EPA 2014a[17])**

All wastes generated and proposed to be disposed of off-site shall be assessed, classified and managed in accordance with this guideline. Where wastes require immobilisation prior to off-site disposal (to reduce waste classifications) an immobilisation approval shall be sought in accordance with Part 2 of this guideline. Immobilisations are only anticipated to be required with unexpected finds.

Guidelines on the Duty to Report Contamination* under the *Contaminated Land Management Act 1997

Completion of the works presented in this RAP will not result in a 'Duty to Report' as defined in the guidelines. Consistent with the scope of works, no works will be permitted within the site that will potentially cause levels of site constituents to be present at points of exposure and/or the site boundary that will cause any NSW EPA published or endorsed criteria to be exceeded.

Work Health and Safety Act 2011 No 10* and *Work Health and Safety Regulation 2011

The information and data provided in this RAP should be considered by the Principal/Remediation Contractor in preparation of their health and safety plans for the remedial works..

Planning Agreement Green Square Town Centre – Stage 3

An agreement exist for Stage 3 (VPA 2022a). Remedial works must be carried out in accordance with the requirements of this agreement. Specifically with regard to remediation, the following is required:

<u>Area 11/12 – Road Reserves</u>

- An interim capping layer "*at 150 mm above existing ground levels and within any relevant environmental planning instrument and approvals and all structures, footings, redundant underground services, culverts and kerbs removed to depth*" is required to be installed across the land to be dedicated;
- Within road reserves/service corridors, "*700 mm below design surface levels as indicated in the Essential Infrastructure DA Plan and with any relevant environmental planning instrument and approvals and all structures, footings, redundant underground services, culverts and kerbs removed to depth*";
- "*The Contractor must remove and Remediate any underground storage tanks from the Contribution Lands that are identified in the Remedial Action Plan and require to be removed from Contribution Lands under the Remediation Action Plan or as otherwise uncovered by the Contractor irrespective of the depth at which those underground storage tanks are located*";
    - JBS&G note these works were completed in 2014, as documented in JBS&G (2025b);
- "If there is a risk of pollution migrating from the Contribution Land below the minimum depth and interim cap level, then the Contractor must remediate below that level to remove that risk";

[17] *Waste Classification Guidelines – Part 1: Classifying Waste*. NSW EPA 2014 (EPA 2014a)

- "The Contractor will engage a site auditor to prepare the Contractor Remediation Statement in accordance with the Remedial Action Plan and anything else required by law, including under the *Contaminated Land Management Act*"; and
- "The Contractor must supply and install a security fence adjacent to the Contributing Lands prior to transfer to the Council to prevent public access on to those parts of the Developable Area which have not been Remediated".

7. Remedial Plan

The adopted remediation strategy involves the excavation of fill material surplus to development to accommodate the proposed development. Fill identified as posing a potential vapour risk (AEC 2, as detailed in **Section 5.4**) is proposed to be remediated via excavation and off-site disposal. Remaining fill will be capped in situ to eliminate human and ecological exposure pathways, with the capping arrangement and procedure to ensure the ongoing sustainability of the site documented in a long-term EMP to be prepared for the site.

This approach aligns with the remediation options assessment outlined in the Overarching RAP (JBS, 2013), which supports the retention of impacted fill to assist with ESD and waste minimisation objectives for the GSTC.

It is envisaged that remedial and validation works will be potentially conducted as a staged process as required for the site. Within each proposed stage, remediation works will comprise, where appropriate, the following actions.

7.1 Site Establishment

For each stage of remediation works, the boundary will be defined (via registered survey) and secured as appropriate to ensure that all safety and environmental controls are implemented, including necessary contractor briefings and inductions for the remediation workforce. A summary of the controls is provided in **Section 10**.

7.2 Excavation of Fill

To reach the required reduced levels, controlled excavation/contouring will be required in areas. Where this is required, and fill is surplus to development, it is proposed to be remediated via excavation and off-site disposal to a facility lawfully able to accept the material.

The site has historically been the subject of an in-situ waste classification (JBS&G 2014[18]). Given the lapse in time and new data collected in June 2023 to support the previous remedial strategy for Stages 3 and 4, this in-situ waste classification has been updated, as documented in JBSG (2025b[19]), and included in **Appendix C**. The classification has not changed.

Any additional material not forming part of the existing classification (JBS&G 2025b), or identified unexpected finds that require off-site disposal, shall be classified in accordance with EPA (2014a) requirements, or an appropriate exemption as created under the *Protection of the Environment Operations (Waste) Regulation* 2014.

Material tracking requirements are detailed in **Section 7.7**

[18] *Green Square Consortium Final Material Classification Assessment Green Square Town Centre Development c/- Mirvac Projects Pty Ltd.* Prepared by JBS&G Australia Pty Ltd ref. 43182/56932 Rev 1 dated 10 July 2014 (JBS&G 2014)

[19] In-situ Waste Classification - Stage 3, Green Square Town Centre, 960A Bourke Street, Zetland, NSW (Rev 0), JBS&G Australia Pty Ltd, 6 June 2025 (JBS&G 2025b)

7.3 Excavation of Hydrocarbon Impacts

As outlined in **Section ?**, two locations (BH509 at 5.0 m bgs and BH512 at 3.5 and 4.5 m bgs) have been reported to potentially represent a vapour intrusion risk requiring remediation. The lateral and vertical extents are discussed in **Table 5.1**. All generated fill material will be disposed of at a facility lawfully able to accept the material as waste.

As noted above, fill materials on-site have been the subject of an in-situ waste classification (**Appendix C**).

7.4 Physical Separation (capping) of Impacted Fill Material

Following the removal of the above volatile impacted fill and establishment of reduced levels, fill materials that will not require excavation as part of the development (i.e. AEC 1) will be managed via a remediation strategy comprising in-situ cap/cover by physical separation.

Based on fill/soil physical properties, as summarised within analytical results (**Table A** - **C**) and the findings of JBS&G 2025, contaminants generally fall within Groups 1, 2 and 10, as listed in Table 1 (ANZECC, 1999). For these contaminant groups, inhalation of vapours is not a primary exposure. Therefore, implementation of a 'cap and contain' strategy as indicated in ANZECC (1999), in conjunction with appropriate control measures, is appropriate with respect to management of the health risk.

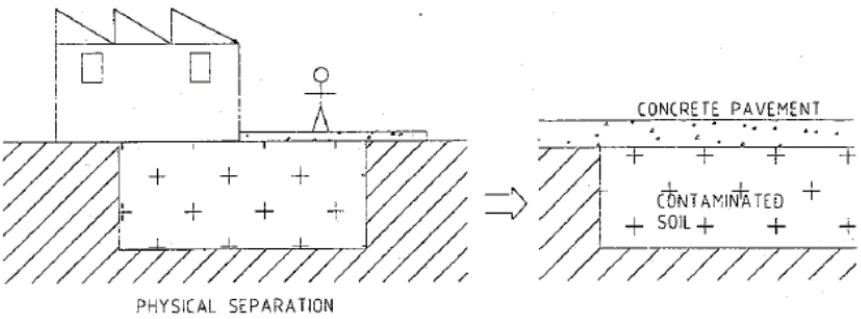
Furthermore, based on fill/soil physical properties, analytical results (**Table A**, **B** and **C**), water exclusion and isolation using bottom lining as listed in Table 2 (ANZECC, 1999) is not considered necessary.

All future flora will be established within imported, environmentally suitable soils which are protective of both human and ecological health. Site won fill/soil will not be used for landscaping purposes and will be readily managed as part of the LTEMP document. JBS&G note site-won soils that remain in-situ have been demonstrated to contain non-leachable properties. Minimum capping requirements are discussed in the preceding sections.

As nominated in the Overarching RAP (JBS 2013), the minimum requirements for physical separation to be adopted in the remediation of the GSTC include:

- A minimum soil cover thickness of 0.5 m and underlain by a 'marker layer' in unpaved areas (i.e. gardens, landscaped areas, etc.); or
- Permanent concrete floor/ground slabs or asphaltic concrete surfaced pavements and underlain by a 'marker layer' (i.e. underlying building, roads, pathways etc.).

A conceptual sketch is shown following.



ANZECC (1999[20])

[20] *Guidelines for the Assessment of On-Site Containment of Contaminated Soil,* Australian and New Zealand Environment and Conservation Council, September 1999 (ANZECC 1999)

7.4.1 Marker Layer

The marker layer shall comprise a highly visible orange geofabric, consistent with that used throughout the remainder of the GSTC. Details of the marker layer, including its specifications and plans showing the extent of the capped area, must be included in both the Site Validation Report and the EMP. A survey of the extent of the marker layer is required.

The marker layer is to be installed to delineate the extent of retained fill. It is not required beneath the basement and building footprint, as these structures will either be tanked or comprise an engineered slab and not accessible to future maintenance personnel.

7.4.2 Capping Arrangements

Mirvac Land

Given the specific development plans proposed for the site (**Appendix A**), as understood at the time of preparation of this RAP, the following capping procedures will be implemented:

- **Beneath the Utilities Basement and Building Footprint** – installation of a permanent concrete slab as the physical barrier will be sufficient. Given the engineered nature of these structures and the requirement of foundation piling, it is considered that no marker layer is required to be installed beneath the foundations/permanent slabs.
- **Paved Areas Beyond the Building Footprint** – A marker layer is to be installed over site fill material, followed by placement of subgrade material validated as suitable for human exposure. The final surface will consist of paving, such as external concrete footpaths, driveways, or pavers.
- **Landscaped Areas Beyond the Building Footprint** – installation of the marker layer at a minimum depth of 0.5 m below final finished site levels in areas of shallow-rooted planting, or 1.5 m below final finished site levels in areas of tree planting as per the Overarching RAP (JBS&G 2013). However, subject to site auditor approval, this depth may be altered based on advice from the horticulturalists/landscape architects, with environmentally suitable materials placed above to the final levels.
- **Services Trenches** – in the event underground services trenches are to be installed within the site beyond the building footprint, the service infrastructure will need to be installed above a marker layer within materials suitable for potential human exposure.
- **Material Above the Marker Layer to Finished Ground Level** – All material placed above the marker layer must be validated as environmentally suitable for human and/or ecological exposure, as appropriate. This may include:
    - Material sourced from within the GSTC and validated for reuse in accordance with the requirements of **Section 8.8.3**;
    - Imported Virgin Excavated Natural Material (VENM), Excavated Natural Material (ENM), or similar, certified under an applicable NSW EPA exemption/order; or
    - Imported road-making materials consisting of fresh quarried material or materials approved under an NSW EPA beneficial reuse exemption.

The proposed site development is shown on **Figure 3**. An illustrative cross-section of site capping arrangements is shown on **Figure 5A** and **5B**.

A survey conducted by a registered surveyor, detailing the extent and thickness of the capping (i.e. the marker layer and top of cap), is required for inclusion in the Site Validation Report and EMP for the site

Land to be Dedicated to Council

The following capping arrangements are required:

- **Land to be Dedicated to Council – Areas 10/11 (Fellmonger Place and Barker Street)**

  Where land is to be dedicated to Council, future road reserves of Fellmonger Place and Barker Street, works must include the placement of a marker layer above any potentially contaminated material at a depth of 850 mm below the final surface level. Above this marker layer, validated subgrade material suitable for potential human and ecological exposure (where required) is to be placed, followed by the final pavement layer (e.g., concrete, asphalt, or pavers). Refer to **Section 6** for further detail.
  Where underground services are to be installed below 850 mm, infrastructure must be placed above a marker layer within validated fill that is suitable for human and/or ecological exposure.

JBS&G confirm the proposed cap and containment depths are based on the established/agreed planning agreements between Mirvac, Council and Landcom, refer to: Stage 3 (VPA 2022[21], **Appendix D**) - as summarised in **Section 6**. JBS&G notes that they are in accordance with ANZECC 1999 as they will comprise hardstand pavements.

7.5 Material Importation

Where imported fill materials are required, such as crushed sandstone for piling pads, pavement subgrades, drainage aggregate, or similar, these materials must be demonstrated as suitable for site use prior to import and compliant with relevant regulatory requirements. Sampling densities, analytes, and assessment criteria should be in accordance with **Section 8** and relevant NSW EPA-made or approved guidelines for each material type.

7.6 Asbestos Management

Some site fill material has been identified to be contaminated by asbestos, occurring as fragments of ACM and AF/FA (friable). Notwithstanding, all fill should be treated as asbestos impacted until deemed otherwise from a WHS viewpoint.

Asbestos-contaminated soil necessitating management for potential asbestos exposure is defined in *How to Manage and Control Asbestos in the Workplace Code of Practice*, 2022, SafeWork NSW (SafeWork NSW 2022[22]) as:

- Soil that contains visible asbestos as determined by a competent person; or
- Soil that contains asbestos fibres at quantities exceeding trace levels (considered to be the analytical detection limit in lieu of alternate guidance) as reported by analysis undertaken in accordance with AS4964:2004 *Method for the qualitative identification of asbestos in bulk samples*.

Environmental, health and safety management requirements for the handling of these materials will be based on the requirements provided for asbestos-related works in SafeWork NSW 2022. This will include the preparation of an asbestos register and associated asbestos removal control/management plan as outlined in SafeWork NSW 2022. Excavation and removal of friable asbestos-contaminated soils are required to be conducted by a Class-A asbestos removal licensed contractor.

As per the requirements of SafeWork NSW (2022), the asbestos removal works during the remediation and materials management of fill from the site are required to be supervised by a Licensed Asbestos Assessor (LAA).

[21] Registration of Planning Agreement pursuant to s7.6 Environmental Planning and Assessment Act 1979, Land Registry Document Identification: AS716028, Planning Agreement: Green Square Town Centre – LML Development - Stage 3. Parties: The Council of the City of Sydney (Council), Mirvac Green Square Pty Ltd (Contractor), Landcom (Land Owner), Dated: 12 December 2022 (VPA 2022);

[22] How to Manage and Control Asbestos in the Workplace: Code of Practice, dated December 2022, SafeWork NSW (SafeWork NSW 2022)

During the remediation works, perimeter asbestos in air monitoring will be conducted at each applicable remediation works area boundary when soil with asbestos are being disturbed. Air monitoring will be conducted on a daily basis at relevant locations whilst disturbance of asbestos impacted areas takes place.

Air monitoring will be conducted during any ground disturbance activities within impacted soil to verify that implementation of appropriate control measures have been successful at managing the risk of air borne fibre generation. Air monitoring will be undertaken in accordance with the requirements of the National Occupational Health and Safety Commission (NOHSC) Asbestos Code of Practice and Guidance Notes, in particular the Guidance note for the estimation of airborne asbestos dust [NOHSC 3002:2005].

7.7 Materials Tracking

The source location (grid reference) of each material type, temporary stockpile location (grid reference) with volume estimates of each material type, and the final placement location (grid reference) of each material type will need to be recorded by the Remedial Contractor for inclusion in the site Validation Report.

In addition, any materials import and export will need to be documented/recorded along with the material's final placement location (grid reference) by the Remedial Contractor for inclusion in the site Validation Report. A materials tracking template is provided in **Appendix B**.

8. Validation Plan

8.1 Overview

Validation data is required to be collected to verify the effectiveness of the remediation works and document the final site conditions as being suitable for the proposed future mixed land uses.

The following sections establish the data quality objectives (DQOs) to be adopted during the validation of the site remediation works.

8.2 State the Problem

Assessments have identified that prior to redevelopment, remediation/management of contamination is required. The extent of impact is detailed in **Section 5.4**.

During remediation activities, sufficient validation of the site activities is required to demonstrate that the identified environmental and health-based risks to future user(s) of the site have been adequately managed to render the site suitable for the proposed land use.

8.3 Identify the Decision

The decisions which are required to be made for validation of the site are:

- Has fill material identified as presenting a potential vapour intrusion risk been successfully remediated and validated following excavation?
- Have physical separation arrangements been installed to meet the remedial objectives?
- Has remediation and validation been completed in accordance with the requirements of the RAP?
- Is the site suitable for the proposed use?

8.4 Identify Inputs to the Decision?

Inputs to the decisions are:

- Detailed development plans to be provided by Mirvac, appropriate to identify:
    - Areas of accessible soils;
    - Areas of planting; and
    - Areas of soils potentially subject to restricted access (i.e. in proximity of sub-surface services).
- Field observations in relation to the inspection of all excavation bases, walls and stockpiles for odours, sheen, discolouration, and other indicators of potential contamination.
- Waste classification and/or material characterisation data obtained during the assessment of fill materials/soils/bedrock during excavation works to support off-site removal.
- Materials tracking records.
- Importation assessment criteria.
- Disposal dockets and relevant documents in relation to appropriate disposal of material to be removed from portions of the site remediation works (landfill dockets, beneficial reuse/recycling dockets, if materials are removed from site).
- Evidence of installation of ‘marker layer’ over environmentally impacted materials where required.

- Survey data as to the extent of capping materials and the lateral extent of potentially environmentally impacted materials, including survey of the extent of natural soil and environmentally impacted material required to be retained at shallow depths in proximity of site boundaries.
- Data quality indicators as assessed by quality assurance/quality control (QA/QC).

8.5 Define the Study Boundaries

The site is legally identified in **Section 2.1** and shown on **Figure 1, Figure 2,** and **Figure 3**.

The vertical extent of the works will be the bulk excavation level required for the proposed development at approximately 11.5 m AHD to account for the utilities basement extent, as shown on **Figure 3**.

Validation works will be completed within development timelines to be informed by Mirvac.

Due to the nature of potential contaminants identified, temporal variables will not be assessed as part of this validation assessment. The temporal boundaries of this investigation will be limited to the period of the field validation assessment works.

8.6 Develop a Decision Rule

The decision rules adopted to answer the decisions identified in **Section 8.3** are discussed below in **Table 8.1**.

Table 8.1: Summary of Decision Rules

Decision Required to be Made	Decision Rule
1. Has fill material identified as presenting a potential vapour intrusion risk been successfully remediated and validated following excavation?	If all fill representing a potential vapour inhalation risk to future receptors has been removed and disposed of in accordance with EPA waste guidelines and the ensuring remedial excavation successfully validated, then the decision will be **Yes**. Otherwise, the decision will be **No,** and additional assessment and/or remediation will be required to demonstrate that the objectives of the RAP have been achieved.
2. Have physical separation arrangements (capping) been installed to meet the remediation objectives?	If capping arrangement have been installed in accordance with **Section 7.4** and survey documentation coupled with materials characterisation and tracking documentation can demonstrate compliance with site capping arrangement requirements, then the decision will be **Yes**. Otherwise, the decision will be **No,** and additional assessment and/or remediation will be required to demonstrate the objectives of the RAP have been achieved.
3. Has remediation and validation been completed in accordance with the requirements of the RAP?	A qualitative assessment of the remedial works in relation to EPA and Council approvals will be undertaken following remedial works. If there are no outstanding issues with respect to regulatory approvals, then the decision will be **Yes**. Otherwise, the decision will be **No,** and additional assessment and/or remediation will be required to demonstrate the objectives of the RAP have been achieved.
4. Is the site suitable for the proposed use?	If the answer to any of the above decision questions is no, then the decision will be **No**. Otherwise, then the decision will be **Yes**.

8.7 Specify Limits of Decision Error

This step is to establish the decision maker's tolerable limits on decision errors, which are used to establish performance goals for limiting uncertainty in the data. Data generated during this project must be appropriate to allow decisions to be made with confidence.

Specific limits for this project have been adopted in accordance with the appropriate guidance from the NSW EPA, NEPC (2013), ANZG (2018[23]), EPA (2017[24]), appropriate indicators of data quality (DQIs used to assess QA/QC) and standard JBS&G procedures for field sampling and handling.

To assess the usability of the data prior to making decisions, the data will be assessed against pre-determined DQIs for completeness, comparability, representativeness, precision and accuracy.

The pre-determined Data Quality Indicators (DQIs) established for the project are discussed below in relation to precision, accuracy, representativeness, comparability, completeness and sensitivity (PARCCS parameters), and are shown in **Table 8.2**.

- **Precision** - measures the reproducibility of measurements under a given set of conditions. The precision of the laboratory data and sampling techniques is assessed by calculating the Relative Percent Difference (RPD) of duplicate samples.
- **Accuracy** - measures the bias in a measurement system. The accuracy of the laboratory data that are generated during this study is a measure of the closeness of the analytical results obtained by a method to the 'true' value. Accuracy is assessed by reference to the analytical results of laboratory control samples, laboratory spikes and analyses against reference standards.
- **Representativeness** –expresses the degree which sample data accurately and precisely represent a characteristic of a population or an environmental condition. Representativeness is achieved by collecting samples on a representative basis across the site, and by using an adequate number of sample locations to characterise the site to the required accuracy.
- **Comparability** - expresses the confidence with which one data set can be compared with another. This is achieved through maintaining a level of consistency in techniques used to collect samples; ensuring analysing laboratories use consistent analysis techniques and reporting methods.
- **Completeness** – is defined as the percentage of measurements made which are judged to be valid measurements. The completeness goal is set at there being sufficient valid data generated during the study.
- **Sensitivity** – expresses the appropriateness of the chosen laboratory methods, including the limits of reporting, in producing reliable data in relation to the adopted criteria.

If any of the DQIs are not met, further assessment of the data set will be required in order to determine whether the non-conformance has significant effects on the usefulness of the data. Corrective action to correct an adverse impact on the reliability of the dataset may include, but is not limited to, the request of further information from samplers and / or analytical laboratories, downgrading of the quality of the data or alternatively, re-collection of the data.

Table 8.2: Summary of Data Quality Indicators

Data Quality Indicators	Frequency	Data Quality Criteria
Precision		
Split duplicates (intra-laboratory)	1 / 20 samples	<30[2]-<50[1] % RPD, asbestos in agreement.
Blind duplicates (inter-laboratory)	1 / 20 samples	<30[2]-<50[1] % RPD, asbestos in agreement.
Laboratory Duplicates	1 / 20 samples	<30[2]-<50[1] % RPD, asbestos in agreement.

[23] *Australian and New Zealand Guidelines for Fresh and Marine Water Quality 2018* (ANZG 2018).
[24] *Contaminated Land Management Guidelines for the NSW Site Auditor Scheme (3rd Edition).* NSW EPA 2017 (EPA 2017)

Data Quality Indicators	Frequency	Data Quality Criteria
Accuracy		
Surrogate spikes	All organic samples	70-130%
Laboratory control samples	1 per lab batch	70-130%
Matrix spikes	1 per lab batch	70-130%
Trip spike[4]	1 per lab batch	70-130% recovery
Storage blank[4]	1 per lab batch	<LOR
Rinsate sample[4]	1 per sampling event/media	<LOR
Representativeness		
Sampling appropriate for media and analytes	All samples	-[3]
Samples extracted and analysed within holding times.	All samples	Soil: organics (14 days, other than vinyl chloride – 7 days), inorganics (6 months)
Comparability		
Standard operating procedures for sample collection & handling	All Samples	All Samples[3]
Standard analytical methods used for all analyses	All samples extracted and analysed within holding times	NATA-accredited methods for all sample analysis[3]
Consistent field conditions, sampling staff and laboratory analysis	All Samples	All samples[3]
Limits of reporting appropriate and consistent	All Samples extracted and analysed within holding times	All samples[3]
Completeness		
Sample description and COCs completed and appropriate	All samples	All samples[3]
Appropriate documentation	All samples	All samples[3]
Satisfactory frequency and result for QC samples	-	95% compliance[3]
Data from critical samples is considered valid	-	Critical samples valid[3]
Sensitivity		
Analytical methods and limits of recovery appropriate for media and adopted Site assessment criteria	All samples	LOR<= Site assessment criteria

(1) If the RPD between duplicates is greater than the pre-determined data quality indicator, a judgment will be made as to whether the excess is critical in relation to the validation of the data set or unacceptable sampling error is occurring in the field.
(2) An RPD of 30% applied to Metals only. If the RPD between duplicates is greater than the pre-determined data quality indicator, a judgement will be made as to whether the excess is critical in relation to the validation of the data set or unacceptable sampling error is occurring in the field.
(3) A qualitative assessment of compliance with standard procedures and appropriate sample collection methods will be completed during the DQI compliance assessment.
(4) Not required for VENM/ENM importation samples or waste classification for off-site disposal.

8.8 Optimise the Design for Obtaining Data

8.8.1 Fill Representing a Potential Vapour Inhalation Risk (AEC 2)

The following sampling density will be adopted:

- Sample locations from the walls of excavation formed by the removal of impacted fill at the frequency of one sample per 10 m of excavation wall per identifiable stratum, or per metre of wall depth, with a minimum of one per wall;
- Sample locations from the base of excavations formed by the removal of impacted soil at the frequency of one sample per 100 m^2; and
- Soil samples shall be analysed for TRH/BTEX.

8.8.2 Site Capping Arrangement

Reference is made to the site capping arrangement detailed in **Section 7.4.2**, including the requirement for a survey to confirm the extent and thickness of the capping.

8.8.3 Materials Import/Export

It is anticipated that the development consent will only permit the import of VENM, ENM or other materials covered by a NSW EPA exemption/order. On this basis, soils shall only be received that have been assessed in accordance with a recovery exemption/order as published by the NSW EPA and applicable to the site uses proposed, or otherwise as certified as VENM as defined in *Schedule 1 of the* POEO Act by JBS&G.

Where contaminated materials are not suitable to be capped (AEC 2), materials are required to be remediated by off-site removal and disposal. Materials shall be classified in accordance with EPA (2014) *Waste Classification Guidelines*, or an appropriate exemption as created under the POEO Regulation. As noted above, site fill materials have been the subject of an in-situ waste classification (**Appendix C**).

Materials destined for importation/export will be sampled at densities in **Table 8.3**.

Table 8.3: Material Import/Export Assessment Criteria

Material Type	Density	Analysis	Additional
VENM (sourced from a construction site or otherwise)	1 sample per 500 m^3 with a minimum of 3 samples per source site/material type	Heavy Metals (As, Cd, Cr, Cu, Ni, Pb, Zn, Hg) TRH, BTEX, PAH, OCP, PCB, Asbestos	Source site inspection + visual inspection upon arrival
VENM (quarried products)	N/A	N/A	Statement of compliance from the source facility + visual inspection upon arrival
ENM	As per the order/exemption	As per the order/exemption + Asbestos	Source site inspection plus visual inspection upon arrival
Recycled Materials	1 sample per 250 m^3 with a minimum of 3 samples per source site/material type	Heavy Metals (As, Cd, Cr, Cu, Ni, Pb, Zn, Hg) TRH, BTEX, PAH, OCP, PCB, Asbestos	Source site inspection + visual inspection upon arrival
Growing Media	1 sample per 250 m^3 with a minimum of 3 samples per source site/material type	Heavy Metals (As, Cd, Cr, Cu, Ni, Pb, Zn, Hg) TRH, BTEX, PAH, OCP, PCB, Asbestos	Source site inspection + visual inspection upon arrival
Off-site disposal (waste classification)	As per EPA (2014) and EPA (2022)	As per EPA (2014) and EPA (2022)	-

Material Type	Density	Analysis	Additional
On-site re-use	As per EPA (2022)	Heavy Metals (As, Cd, Cr, Cu, Ni, Pb, Zn, Hg) TRH, BTEX, PAH, OCP, PCB, Asbestos	-

8.9 Soil Sampling Methodology

All sampling will be completed by a suitably qualified and experienced JBS&G environmental consultant. The below section outlines the sampling methodology which will be adopted throughout the remedial process.

8.9.1 Soil Sampling Methodology

The soil sampling method shall be determined by the Field Scientist as consistent with the observations of the site sub-surface and appropriate to generate representative samples. The soil sampling method shall be consistent with the data quality indicators in **Section 8.7.** During the collection of soil samples, features such as seepage, discolouration, staining, odours will be recorded on filed notes. Re-usable equipment shall be required to be decontaminated between sampling locations.

8.9.2 Soil Sample Containers

Collected soil samples shall be immediately transferred to sample containers of appropriate composition (glass jars) fitted with Teflon sealed lids. 500 mL samples shall be additionally collected and placed in new zip lock bags where asbestos analysis is required. Sample labels shall record sample identification number and date and time of sampling. Sample containers shall be transferred to a chilled ice box for sample preservation prior to and during shipment to the testing laboratory. A chain-of-custody form shall be completed and forwarded with the samples to the testing laboratory, containing the following information:

- Sample identification;
- Signature of sampler;
- Date of collection;
- Type of sample;
- Number and type of container;
- Inclusive dates of possession; and
- Signature of receiver.

8.9.3 PID Screening

Soil samples will be screened during field works using a Photo-ionisation detector (PID) to assess the potential presence of VOCs, including petroleum hydrocarbons. Samples obtained for PID screening will be placed in a sealed plastic bag for approximately 5 minutes to equilibrate prior to a PID being attached to the bag. Readings will then be monitored for a period of approximately 30 seconds or until values stabilise and the stabilised/highest reading will be recorded on the field sample forms. The PID will be calibrated prior to the commencement of field works and check readings will be completed on a daily basis during the field program using suitable calibration gas. If required, the PID will be re-calibrated during the field program in accordance with the manufacturer's instructions.

8.10 Laboratory Analysis

National Association of Testing Authorities (NATA) accredited laboratories shall be used for all analysis of samples. Appropriate methods and limits of reporting (LOR) are required for comparison to relevant criteria.

8.11 Validation Criteria

8.11.1 Remedial Excavation and Accessible Materials Above Marker Layer

Based on the proposed development details and in accordance with the decision process for assessment of urban redevelopment sites (EPA 2017), concentrations of contaminants in media shall be compared against adopted criteria, sourced from the following:

- NEPC (2013): Health-based Investigation Levels (HILs) for residential with minimal opportunity for soil access (HIL B).
- NEPC (2013): Health Screening Levels (HSLs) for petroleum hydrocarbons considering potential for vapour intrusion, coarse-grained soil for low-high density residential (HSL A & B) land use.
    - **Note**: NEPC (2013) states that for multi-storey buildings where non-residential uses (e.g., car parking or commercial use) exist in a basement or at ground level, the land use HSL-D (commercial/industrial) criterion may be applied.
- NEPC (2013): Ecological Investigation Levels (EILs), generic and site-specific derived through the added contaminant limits for urban residential/public open spaces.
- NEPC (2013): Ecological Screening Levels (ESLs) for TRH fractions, BTEX and benzo(a)pyrene in coarse-grained soil for urban residential/public open spaces.
- NEPC (2013): Management Limits for TRH, coarse-grained soils for urban residential/public open spaces.
- CRCCARE (2017[25]): Ecological Investigation Levels (EIL) for B(a)P in residential land uses; and
- Where there are no NSW EPA-endorsed thresholds the laboratory LOR has been adopted as an initial screening value for the purposes of this assessment.

Application of Soil Assessment Criteria

For soils to be considered as meeting the health/ecological-based assessment criteria (i.e., not posing an unacceptable risk), the following criteria will be adopted:

Either:

- All contaminant concentrations were less than the adopted site assessment criteria,

Or:

- The upper 95% confidence limit on the average concentration for each analyte (calculated for samples collected from consistent soil horizons, stratigraphy or material types) was below the adopted criterion.
- No single analyte concentration exceeded 250% of the adopted criterion; and
- The standard deviation of the results was less than 50% of the criterion.

[25] *Risk-based Management and Remediation Guidance for Benzo(a)pyrene, Technical Report No. 39*, Cooperative Research Centre for Contamination Assessment and Remediation of the Environment, dated January 2017 (CRCCARE 2017)

In addition to the numerical criteria, the following visual observations will also supplement the assessment process:

- No visible asbestos-containing material in addition to laboratory analysis results; and
- Consideration was given to odorous or discoloured soils (caused by contamination).

8.11.2 Material Characterisation for Off-site Disposal

Where contaminated fill/soil is not suitable for onsite management or is surplus to construction requirements, materials are proposed to be remediated by off-site removal and disposal. Materials shall be classified in accordance with EPA (2014) *Waste Classification Guidelines* or an appropriate exemption as created under the *Protection of the Environment Operations (Waste) Regulation 2014*.

8.11.3 Imported Materials

In accordance with current EPA policy, only material that does not represent an environmental or health risk at the receiving site may be considered for resource recovery. Imported materials will only be accepted at the site if they meet the restrictions placed on these materials and meet the definition of:

- VENM as defined in the *Protection of the Environment Operations Act* (1997) Schedule 1.
- Excavated Natural Material (ENM) as defined in the EPA Order/Exemption; or
- Recycle materials as per an EPA Order/Exemption.

All materials imported onto the site are required to be accompanied by appropriate documentation that has been verified by the appointed site contamination (environmental) consultant.

8.12 Validation Reporting

At the completion of site remediation works (or stages), a Validation Report will be prepared in general accordance with EPA (2017) and NSW EPA (2020) '*Guidelines for Consultants Reporting on Contaminated Sites*', documenting the works as completed.

This report will contain information including:

- Details of the area of the site which is subject to the validation assessment, including the site history, site condition, surroundings and CSM.
- Details of the remediation works conducted.
- Information demonstrating that the objectives of the RAP have been achieved, in particular, the validation sample results and assessment of the data against both the pre-defined DQO and the remediation acceptance (validation) criteria.
- A clear statement that the remedial/validation works have been completed in accordance with the requirements of the RAP.
- Any variations to the strategy undertaken during the implementation of the remedial works.
- Results of all environmental monitoring undertaken during the course of the remedial works.
- Details of any environmental incidents occurring during the course of the remedial works and the actions undertaken in response to these incidents.
- Details of waste classification, tracking and off-site disposal, including landfill dockets.
- Clear statement of the suitability of the site, which is the subject of the Validation Report, for the proposed use(s).

- Other information as appropriate, including details of EMPs that will apply to the part of the site that is the subject of the Validation Report(s).

The validation report will serve to document the remediation works for future reference.

Given the anticipated staged nature of site remediation, validation report(s) may also need to be staged.

9. Contingency Plan

A review of the proposed contamination-related aspects of the works associated with the development of the site has been undertaken and has identified a number of potential risks, outlined in the following sections that required the development of contingencies to ensure that the objectives of this RAP are met.

9.1 Change in Development Plans

In the event that the development plans are changed from those available at the time of preparation of this RAP, consideration of the suitability of the proposed remediation strategy will be required. Any changes to the development plans must be considered with respect to the remediation actions of this RAP and where the actions are no longer deemed appropriate, the RAP should be updated.

9.2 Material Storage Breach

In the event that any materials storage containment controls are breached, and stockpiled materials classified as asbestos-contaminated soil or otherwise have escaped (or have the potential to escape), then the management controls shall be rectified, and investigations undertaken to review the adequacy of the controls and any improvements implemented. The Site Management Plan (SMP) shall include a documented process for identifying and responding to such incidents.

9.3 Emissions Complaints

Due to the nature of the activities and type of contaminants identified within the site, there is a potential for complaints to be received from members of the public and/or occupants of surrounding properties relating to environmental emissions including:

- Odour emissions arising from handling of malodorous soil;
- Noise and vibration arising from excavation, piling and other works; and
- Dust emissions arising from excavation, material handling and placement.

Monitoring of all environmental emissions shall be undertaken during the works as detailed in the SMP and appropriate actions taken to further control emissions following receipt of a complaint. The SMP shall contain provision for contingency actions where excessive emissions occur, however, it is anticipated that one or more of the following actions will be considered:

- Increased application of odour screening/masking chemicals on odorous materials;
- Disturbance of soils during meteorologically favourable periods only; and/or
- Covering of impacted soils.

10. Unexpected Finds Protocol

The possibility exists for hazards to be present at the site other than those identified and expected based on previous investigations.

Environmental sampling is based on chemical analytes identified as a potential concern during a documented process of reviewing historical site activities. However, ground conditions between sampling points may vary, and further hazards may arise from unexpected sources and/or in unexpected locations. The nature of any additional hazards which may be present at the site are generally detectable through visual or olfactory means, for example:

- Areas of previously unidentified ACM on the ground surface or within fill material.
- Uncontrolled filling, such as in eroded drainage lines.
- Drums or underground tanks.
- Chemical bottles; and
- Odorous or unusual coloured soils.

As a precautionary measure to ensure the protection of the workforce and surrounding community, if any of the abovementioned substances be identified (or any other unexpected potentially hazardous substance), the procedure summarised in **Plate 10.1** and detailed in the following sections is to be followed.

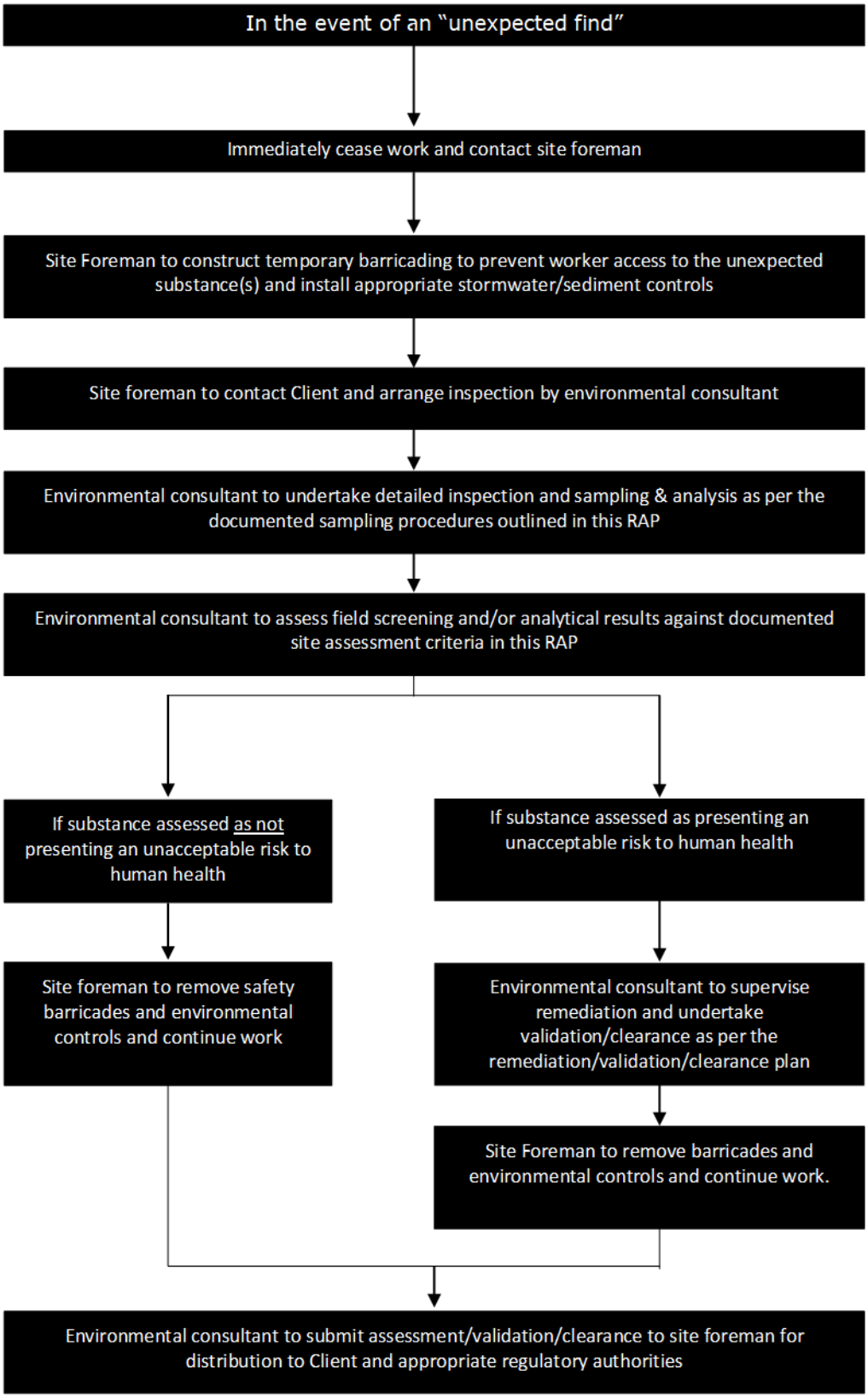
An enlarged version of an unexpected finds protocol, suitable for use on site, should be posted in the Site Office and referred to during the Site-Specific Induction by the Principal Contractor.

The sampling strategy for each 'unexpected find' shall be designed by a suitably qualified environmental consultant, in accordance with guidelines made or endorsed by EPA. The strategy will, however, be aimed at determining the nature of the substance – that is, is it hazardous and, if so, is it at concentrations which pose an unacceptable risk to human health or the environment.

The sampling frequency of the identified substance / materials shall meet the requirements the NSW EPA (2022).

The assessment criteria shall be determined by the appointed site contamination (environmental) consultant, with the subject material to at least meet the criteria nominated in **Section 8.11**, and additional criteria (as necessary) obtained from published national guidance documents.

Plate 10.1: Unexpected Finds Protocol



11. Site Management Plan

This section contains procedures and requirements that are to be implemented as a minimum requirement during the remedial works at the site.

11.1 Contact Persons

Contact details for key personnel involved in remediation and validation works are summarised in **Table 11.1.**

Table 11.1: Contact Details

Client's Supervisor/Manager	Details
Name	To be advised
Company	To be advised
Address	To be advised
Contact Phone	To be advised
Remediation Contractor	Details
Name	To be advised
Company	To be advised
Contact Phone	To be advised
Environmental Consultant	Details
Name	To be advised
Company	To be advised
Address	To be advised
Contact Phone	To be advised

11.2 Hours of Operation

It is understood that the hours of operation for remedial works will be conducted in accordance with the recommended site hours suggested by the EPA[26], however, works hours will be subject to requirements of any development approval conditions provided by the consent authority.

Typical hours of operation for remedial works are:

- Monday to Friday: 7am to 6pm.
- Saturday: 8 am to 1 pm.
- Sunday and public holidays: No work permitted.

Emergency work is permitted to be completed outside of these hours.

11.3 Soil and Water Management

All works shall be conducted in general accordance with Landcom (2004)[27] guidance (the Blue Book), which outlines the general requirements for the preparation of a soil and water management plan.

[26] *Interim Construction Noise Guideline.* Department of Environment & Climate Change NSW. DECC 2009/265. July 2009.
[27] *Managing Urban Stormwater: Soils and Construction*, Landcom 4th Edition, March 2004.

All remedial works shall be conducted in accordance with a soil and water management plan, which is to be kept onsite and made available to council officers on request. All erosion and sediment measures must be maintained in a functional condition through the remediation works by the remedial contractor.

To prevent the migration of impacted soil off site, silt fences shall be constructed at the down-gradient site boundaries by the remedial contractor. Any material which is collected behind the sediment control structures shall be removed off site to a licensed waste facility after waste classification.

In storm or extended rainfall event, the structures located on site for sediment control shall be monitored and replaced or altered, if necessary, by the contractor. Collected material shall be managed in accordance with remediation works by the contractor.

11.3.1 Stockpiles

All materials stockpiled onsite will be managed by the remedial contractor. Unique numbers will be provided for each stockpile, the source of the stockpile, its volume, material characterisation and its location onsite (via GPS) recorded.

The following procedures will be implemented by the remedial contractor:

- No stockpiles of soil or other materials shall be placed on footpaths or nature strips unless prior Council approval has been obtained.
- All stockpiles of soil or other materials shall be placed away from drainage lines gutters or stormwater pits or inlets.
- All stockpiles of soil or other materials likely to generate dust or odours shall be covered (where practical); and
- All stockpiles of contaminated soil shall be placed on plastic sheeting to limit cross contamination of the underlying soils and stored in a secure area.

11.3.2 Site Access

During remediation works, temporary fencing will be installed which will restrict access to remedial areas on the site. Only authorised persons will be permitted to enter the remedial areas.

Vehicle access to the site shall be stabilised to prevent the tracking of materials from the site and the adjoining driveway/access point to the road will be swept or cleaned on an as-needed basis. Any collected materials shall be treated as potentially contaminated and handled as per the classification/reuse/disposal requirements outlined in this RAP.

11.3.3 Excavation Pump-out

Any excavation pump-out water shall be sampled by the environmental consultant for analysis for total suspended solid concentrations, turbidity, pH and the identified contaminants of concern prior to release to stormwater with appropriate documentation indicating that the discharged water is compliant with the ANZG (2018[28]) default guideline values (DGVs) for the 95 % Protection of Fresh Water Ecosystems. If not, the water may be disposed off-site to a licenced facility lawfully able to accept the waste.

[28] *Australian and New Zealand Guidelines for Fresh and Marine Water Quality*, August 2018, Australian and New Zealand Governments and Australian state and territory governments, Canberra ACT, Australia (ANZG 2018)

11.4 Noise

Remediation work shall not give rise to 'offensive noise' as defined in the POEO Act *1997*. All equipment and machinery associated with the remediation work shall be operated by the Contractor in accordance with *the POEO Act 1997* and the *Noise Control Regulations 2000*.

All machinery and equipment used on site will be in good working order and fitted with appropriate silencers when necessary.

Louder equipment shall be located away from noise sensitive areas. Works shall be staged as required to avoid concurrent operation of multiple pieces of noisy equipment. Works outside of normal hours of operation shall be avoided.

11.5 Vibration

The use of plant and machinery shall not cause vibrations to be felt or capable to be measured at neighbouring premises.

11.6 Air Quality

During remedial works, dust emissions and any odours will be confined within the site boundary.

11.6.1 Dust Control

During the remedial works, as necessary, excavation areas will be wetted down using a water spray to minimise the potential for dust to be generated by the remedial contractor.

Dust shall also be controlled by ensuring vehicles leave via the designated (stabilised) site access and all equipment have dust suppressors fitted by the remedial contractor.

During all remedial works, dust screens will be erected around the perimeter of the site by the remedial contractor. Where significant fugitive emissions are observed from specific site areas, these areas shall be wetted and/or covered by the remedial contractor.

Meteorological conditions will be monitored by the environmental consultant and remedial contractor. Remedial work will be stopped or modified where meteorological conditions are adverse (i.e., dry conditions and strong winds towards sensitive receptors).

Plant and vehicles should limit their speed when working within asbestos exclusion zones and only traverse wetted haul roads.

11.6.2 Odour

Given the nature of some of the material being excavated at the site, namely hydrocarbon impacted soils, there may be some odour issues at the site boundaries.

If odours are detectable at the site boundaries, then appropriate actions will be taken to reduce the odours, which may include:

- increasing the amount of covering of excavations/stockpiles;
- mist sprays;
- odour suppressants; or
- maintenance of equipment.

Records of volatile emissions and odours shall be kept by the remediation manager. Equipment and machinery will be adequately maintained to minimise exhaust emissions. No materials shall be burnt on the site.

11.7 Groundwater

No groundwater remediation or dewatering is proposed as part of site remediation works. No approvals are required under the *Water Management Act 2000*.

11.8 Material Transport

Trucks will be loaded in a designated area in a manner designed to minimise noise, vibrations and odour to adjoining premises. The transportation contractor shall ensure that there is no material tracked out onto public roads and that each load is securely covered. Removal and deliveries of soils and materials, equipment and machinery will only occur during the hours of remediation works unless specific approvals are obtained.

All appropriate road rules shall be observed and state roads will be selected as far as practicable over local roads when deciding on the transport route to the off-site material disposal location. In addition, the transport contractor will be required to be appropriately licensed to transport and dispose of the waste identified as requiring removal from the site.

As of 1 July 2015, it will be required under the *Protection of the Environment Operations (Waste) Regulations 2014* (POEO 2014) to record the movement of all loads of more than 100 kg of asbestos waste or more than 10 m^2 of asbestos sheeting. Each load will be assigned a unique consignment code to allow NSW EPA to monitor their movement from site of generation to disposal.

In addition, the proximity principle, under POEO 2014, makes it an offence to transport waste generated in NSW by motor vehicle for disposal more than 150 kilometres from the place of generation, unless the is waste is transported to one of the two nearest lawful disposal facilities to the place of generation.

11.9 Hazardous Materials

Hazardous and/or intractable wastes arising from the remediation work (if any) shall be removed and disposed of in accordance with the requirements of NSW EPA, SafeWork NSW and the relevant regulations by the Contractor.

Any hazardous wastes will be transported by a NSW EPA licensed transporter.

11.10 Disposal of Contaminated Soil

All soil will be classified, managed and disposed in accordance with the *Waste Classification Guidelines* (EPA 2014). Documentary evidence for all soil disposals shall be kept for inclusion in the Validation Report.

Waste disposal of material should be tracked and include the following details:

- Material source location;
- Date of disposal;
- Material classification;
- Quantity of material;
- Landfill receipt number;
- Integrated Waste Tracking Solution (IWTS) number or consignment number (where applicable);
- Waste classification report reference.

11.11 Site Signage and Contact Numbers

A sign shall be displayed adjacent to the site access throughout the duration of the works with the contact details of the remediation contractor and project manager.

11.12 Community Relations

Owners and/or occupants of premises adjoining the site will be notified at least seven days prior to the commencement of remedial works.

Any community concerns or queries should be directed to the site manager. The site manager will notify the site owner of any community queries or concerns so that the site owner will direct an appropriate person to address the community query or concern.

11.13 Site Security

The remedial areas shall be secured against unauthorised access by means of an appropriate fence.

11.14 Occupational Health and Safety

It is the employer's responsibility to ensure that all site remediation works comply with all Work Health and Safety and Construction Safety Regulations of NSW SafeWork. A preliminary Health and Safety Plan is provided in **Section 12.**

12. Health and Safety

This preliminary health and safety plan contains procedures and requirements that are to be implemented as a minimum during the remediation works.

The objectives of the health and safety plan are:

- To apply standard procedures that reduce risks resulting from the above works.
- To ensure all employees are provided with appropriate training, equipment and support to consistently perform their duties in a safe manner.
- To have procedures to protect other site workers and the general public.

These objectives will be achieved by:

- Assignment of responsibilities.
- An evaluation of hazards.
- Establishment of personal protection standards and mandatory safety practices and procedures; and
- Provision for contingencies that may arise while operations are being conducted at the site.

This health and safety plan does not provide safety information specific to construction and other demolition or excavation activities carried out by contractors, such as the safe operation, maintenance and inspection of plant, etc. Contractors will be required to prepare their own Safe Work Method Statements for their work activities. All parties working on the site shall comply with all applicable Health and Safety legislation, regulations, codes and guidelines.

12.1 Responsibilities

12.1.1 Remediation Supervisor

The remediation supervisor is responsible for ensuring that the work is carried out in accordance with the health and safety plan. This will include:

- Ensuring a copy of the health and safety plan is available at the site during the remediation/validation activities.
- Ensuring all works are undertaken in accordance with appropriate regulations and standards.
- Confirming individuals are competent in performing allotted tasks.
- Liaison with the contractor representatives, as appropriate, regarding safety matters; and
- Investigation and reporting of incidents and accidents.

Every individual worker is responsible for conducting their allocated tasks in a safe manner and in accordance with their training and experience. They must give due consideration to the safety of all others in their proximity and cooperate in matters of health and safety. All workers must leave their work areas in such a condition that the location will not be hazardous to others at any time.

12.2 Hazards

The known or potential hazards associated with the work activities described in **Section 7** are listed below:

- Chemical hazards associated with the presence of potentially contaminated soil and groundwater inclusive of elevated levels of hydrocarbons.
- Inhalation hazards associated with the potential presence of bonded ACM in soils.

- Physical hazards, including:
  - work in or near excavations.
  - operating machinery.
  - heat stress and UV exposure.
  - underground (particularly with the presence of UST(s)) or overhead services.
  - manual handling; and
  - noise.

In the event of the discovery of any condition that would suggest the existence of a situation more hazardous than anticipated, or of any new hazard that could potentially cause serious harm to personnel or the environment, work will be suspended until the Project Manager has been notified and appropriate instructions have been provided to field personnel.

12.3 Chemical Hazards

When working with potentially contaminated materials in general, care must be taken to ensure that the contamination is not introduced to the worker via ingestion, inhalation or absorption. PPE and decontamination requirements related to the remedial works are summarised in **Section 13.5**.

12.4 Asbestos Hazards

Remediation works involving the handling of potentially friable asbestos-impacted soils at the site, are required to be undertaken by a suitably licensed Asbestos Removalist contractor (Class A). Asbestos removal works should be completed in compliance with the relevant SafeWork NSW requirements, including SafeWork notification prior to the removal of asbestos.

12.5 Physical Hazards

12.5.1 Operating Machinery

Heavy plant and equipment operating in the vicinity of field personnel presents a risk of physical injury. Personnel should be cognisant of their position in relation to operating machinery at all times.

Never walk behind or to the side of any operating equipment without the operator's knowledge. Do not assume that the operator knows your position. Personnel should stay at least 1 m from the operational area of heavy equipment and should not stand directly below any load or piece of equipment (e.g. backhoes).

12.5.2 Work in or Near Excavations

All excavations shall be shored, sloped or otherwise constructed so as to minimise the potential for collapse.

12.5.3 Cuts and Abrasions

The manual work associated with the remediation works gives rise to the risk of cuts and abrasions to personnel working in the area. As well as the direct consequences of any cut or abrasion, such injuries can lead to the possibility of exposure to contaminants through the wound as well as diseases such as tetanus. To minimise the risk of direct or indirect injury, personnel will wear the personal protective equipment described in **Section 12.6**.

12.5.4 Heat Stress and UV Exposure

Site personnel may experience heat stress due to a combination of elevated ambient temperatures and the concurrent use of personal protection equipment; this depends in part on the type of work and the time of year.

In addition to heat stress, overexposure to UV radiation in sunlight can result in sunburn to exposed skin. The use of a high protection sunscreen (SPF15 or greater) on all exposed skin is recommended. Hats (including hard hats in specified areas) will also provide additional sun protection during the peak (i.e. 10:00 am to 3:00 PM) sun period. Sunglasses should be worn (where appropriate) to protect eyes from effects of UV exposure.

12.5.5 Underground Services

There is the potential for underground services (electricity, natural gas lines, water, telephone, sewer, and stormwater) to be present beneath the work area. The remediation contractor shall ensure that appropriate procedures will be taken to minimise the risk associated with excavation near services.

12.5.6 Aboveground Electrical Hazards

All electrical plant and equipment must comply with the requirements of Australian Standard AS 3000. Handheld portable tools shall comply with AS/NZS 3160 Hand-held Portable Electric Tools and shall be double insulated. Cord connected portable hand lamps shall comply with AS/NZS 3118. A Residual Current Device (RCD) shall protect plug-in portable equipment, which is connected to a supply above Extra Low Voltage - 12-24volts (including equipment supplied from a generator or welding set). RCD protection shall be provided during use of portable electrical equipment at all times while the equipment is connected to a power supply above Extra Low Voltage, irrespective of whether power is switched ON or OFF. RCD's shall comply with AS 3190 and shall be type II units, rated to trip at or below 30 milliamps within 40 milliseconds.

All equipment shall be operated in compliance with the NSW WorkCover (2006) Work Near Overhead Power Lines: Code of Practice. Minimum approach distances for all equipment should exceed:

- 3.0 m for nominal phase to phase ac voltage lines up to 132,000 Volts.
- 6.0 m for 132 000 to 330 000 Volts.
- 8.0 m for greater than 330 000 Volts; and
- 3.0 m for nominal pole to earth dc voltage up to and including 1500 +/- volts.

12.5.7 Manual Handling

When lifting or handling heavy objects, use correct lifting techniques, bending the knees not the back. If the item to be lifted is too heavy or awkward for one person to lift, seek assistance from other company employees or use mechanical help.

12.5.8 Noise

Long-term exposure to high levels of noise is unlikely. However, operating machinery may cause significant noise exposures for short periods. Earplugs or earmuffs should be worn in any situation where noise levels make normal conversation difficult.

12.6 Personal Protective Equipment

All workers who may come into direct contact with contaminated soil will wear the following PPE:

- Overalls or long-sleeved collared shirt.
- Heavy duty outer gloves (e.g. leather) where there is a risk of cuts or abrasions, otherwise PVC outer gloves if in direct contact with contaminated soil.
- Steel capped boots.
- Safety glasses.
- High visibility vest or jacket; and

- Hard hat.

In addition to the above, the following PPE will be worn by the personnel responsible for handling of fill materials within the extent of the site where asbestos impacted soils may be encountered:

- During any work in which direct contact of personnel to asbestos impacted soils may occur and prior to final clearance – overalls, gloves, rubber soled work shoes or gum boots should be work by personnel involved in the work. These shoes will remain inside the work area for the duration of the work.
- Approved respirators shall be worn during direct handling of asbestos impacted soils at all times to provide respiratory protection. The minimum protection is an approved properly fitting P2 disposable respirator or half faced respirator fitted with a particulate cartridge. However, it is expected that the remediation contractor will conduct a risk assessment in relation to the works and should consider the requirement for positive pressure, hood or full-face powered air-purifying respirator fitted with an approved Class M filter.
- The remediation contractor shall supply and keep in good order, two complete sets of protective clothing and respirators for authorised inspection personnel. These will remain the property of the contractor at the end of the contract.
- Respirators should be issued for personal use only and shall be kept in a clean condition. Alcohol based antiseptic swabs should be made available for the cleaning of respirators.
- Any respirator defects should be reported for subsequent repair. They should be maintained in a clean and safe working condition.
- Employees must receive instruction in the correct method of using the respirator and on the importance of correct facial fit and maintenance. No person with a beard shall be allowed within the asbestos work area except using an approved positive pressure continuous airflow hood.

In the event that the PPE detailed above differs from that required by the Class A licensed contractor, the requirements of the licensed contractor will prevail.

12.6.1 Vehicle, Plant and Equipment

All equipment, including personal protective equipment, will be washed or otherwise cleaned to ensure that contaminated soil, water or dust is removed before it leaves the site. All plant and equipment will have their outer bodies thoroughly cleaned of soil and sediment before moving off the site.

12.7 Emergency Response

The remediation contractor will be responsible for preparing an emergency response plan, which will provide details on appropriate action and evacuation procedures in the event of an emergency.

In the event of an emergency arising on the site, appropriate action should be taken. Site evacuation procedures should be followed, as necessary.

In the event of an accident: evaluate the seriousness of the injury, and contact emergency services, if necessary; provide first aid, as appropriate, and if safe to do so evacuate the injured person via the Decontamination Zone; make the area as safe as possible without jeopardising safety

13. Conclusions and Recommendations

13.1 Conclusions

Overall, it is considered that the proposed actions outlined in this RAP conform to the requirements of EPA (2017) because they are:

- technically feasible;
- environmentally justifiable; and
- consistent with relevant laws policies and guidelines endorsed by NSW EPA.

Subject to the successful implementation of the measures described in this RAP, it considered that the site can be made suitable for the proposed mixed land uses. The suitability of the land for the proposed uses will be subject to ongoing management measures required to be documented in a EMP prepared for the site.

13.2 Recommendations

It is recommended that the processes outlined in this RAP be implemented and that the following documentation be developed and implemented to ensure the risks and impacts during remediation works are controlled in an appropriate manner:

- A SMP, to document the monitoring and management measures required to control the environmental impacts of the works and ensure the validation protocols are being addressed; and
- A WHSP to document the procedures to be followed to manage the risks posed to the health of the remediation workforce.

The SMP and WHSP will be required to consider the relevant requirements relating to remediation and handling of asbestos impacted soils.

Upon successful completion of the works, a validation report is required to be submitted by the environmental consultant to the NSW EPA Accredited Site Auditor for independent review, with a Site Audit Statement and accompanying Site Audit Report to be produced to verify the suitability of the land for the intended use.

14. Limitations

This report has been prepared for use by the client who has commissioned the works in accordance with the project brief only, and has been based in part on information obtained from the client and other parties. The report has been prepared specifically for the client for the purposes of the commission, and no warranties, express or implied, are offered to any third parties and no liability will be accepted for use or interpretation of this report by any third party.

The advice herein relates only to this project and all results conclusions and recommendations made should be reviewed by a competent person with experience in environmental investigations, before being used for any other purpose. This report should not be amended in any way without prior approval by JBS&G, or reproduced other than in full including all attachments as originally provided to the client by JBS&G.

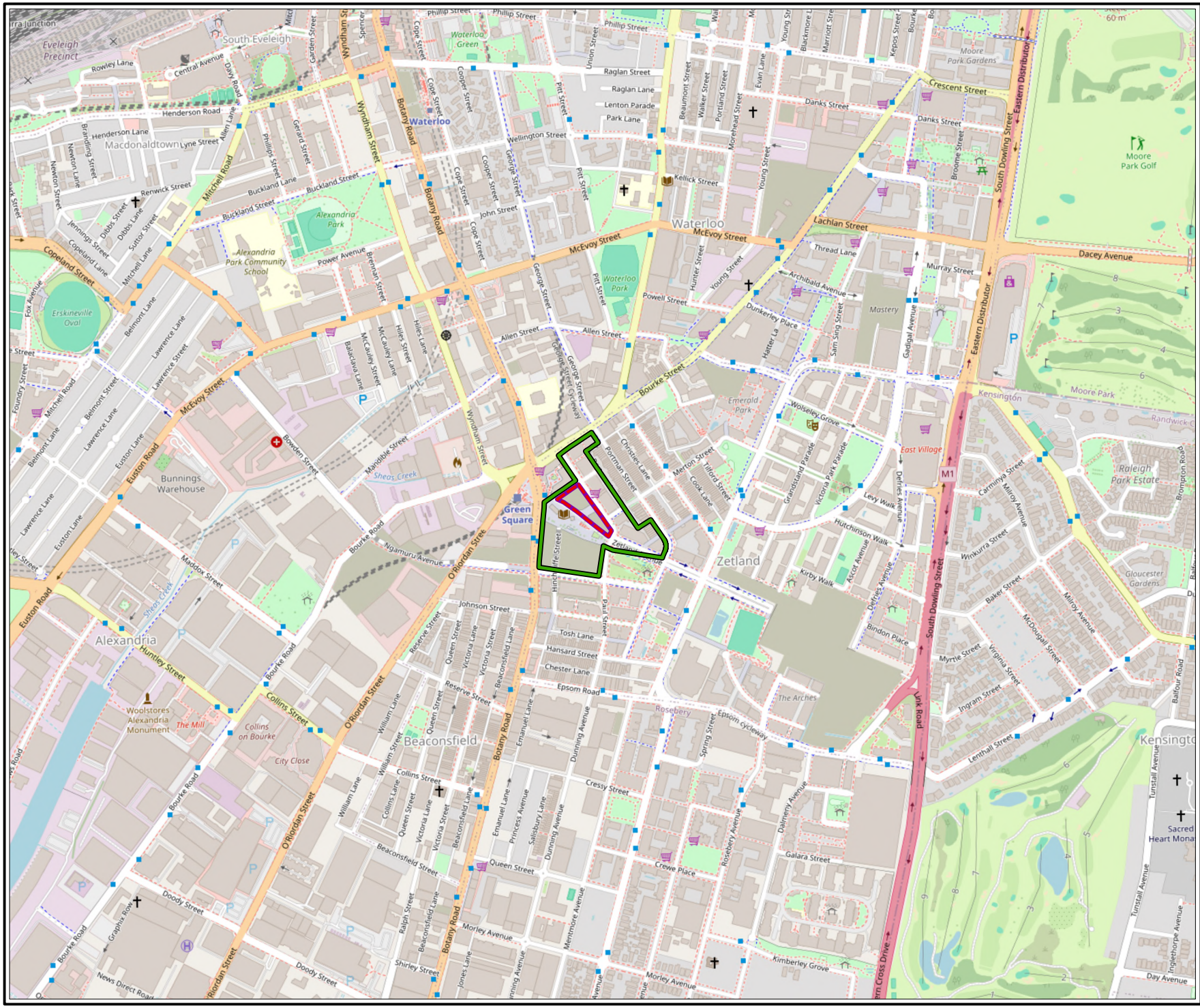
Sampling and chemical analysis of environmental media is based on appropriate guidance documents made and approved by the relevant regulatory authorities. Conclusions arising from the review and assessment of environmental data are based on the sampling and analysis considered appropriate based on the regulatory requirements or agreed scope of work.

Limited sampling and laboratory analyses were undertaken as part of the investigations undertaken, as described herein. Conditions between sampling locations and media may vary, and this should be considered when extrapolating between sampling points. Chemical analytes are based on the information detailed in the site history. Further chemicals or categories of chemicals may exist at the site, which were not identified in the site history and which may not be expected at the site.

Changes to the conditions may occur subsequent to the investigations described herein, through natural processes or through the intentional or accidental addition of contaminants. The conclusions and recommendations reached in this report are based on the information obtained at the time of the investigations.

This report does not provide a complete assessment of the environmental status of the site, and it is limited to the scope defined herein. Should information become available regarding conditions at the site including previously unknown sources of contamination, JBS&G reserves the right to review the report in the context of the additional information.

Figures



JBS&G

Job No: 69329

Client: Mirvac Green Square Pty Ltd

Version: R05 Rev 1	Date 5/11/2025
Drawn By: RF/AB	Checked By: CD

Scale 1:12,500

0 125 250

metres

Coord. Sys. GDA 1994 MGA Zone 56

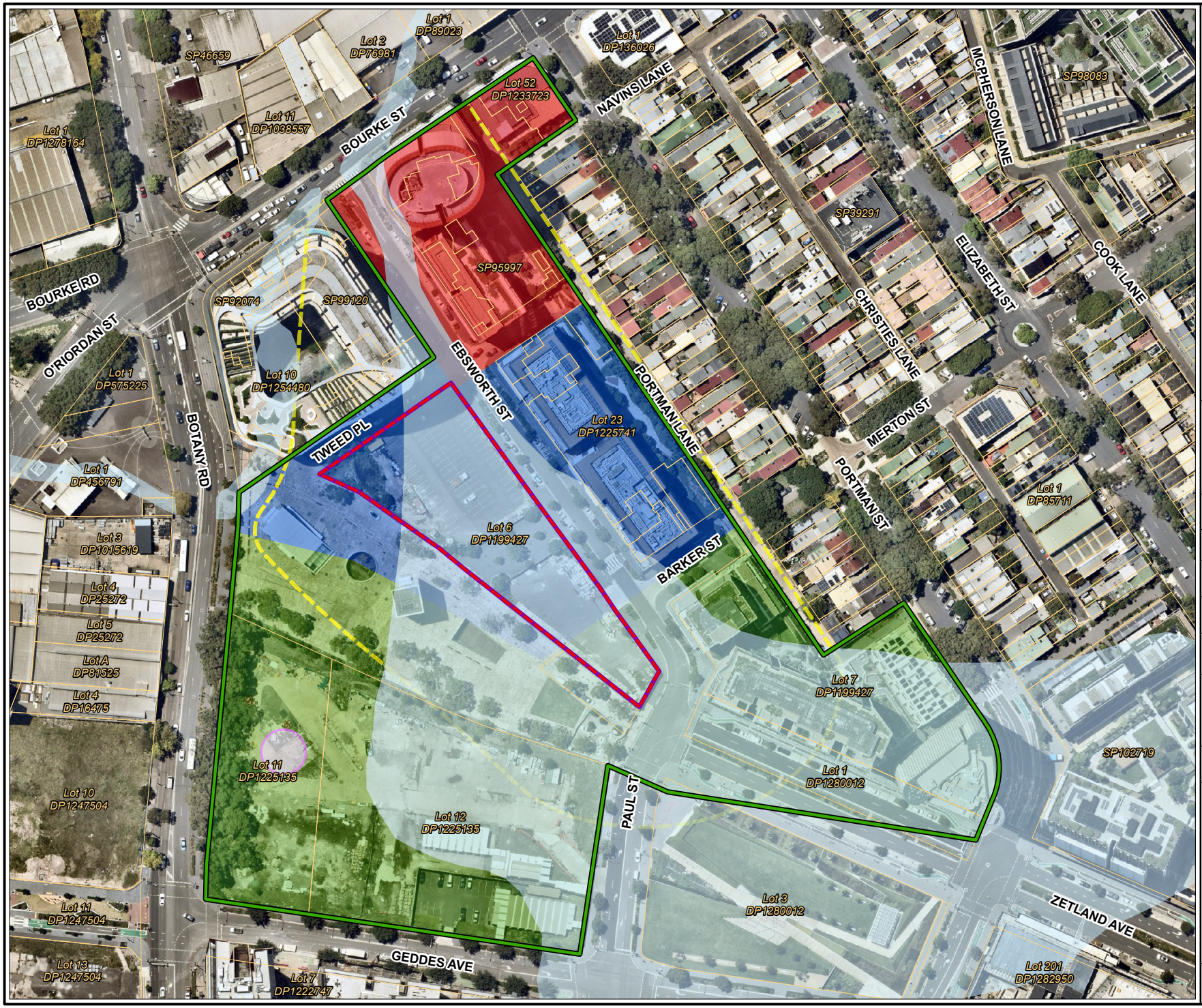
Green Square, NSW

SITE LOCATION - STAGE 3

FIGURE 1

File Name: 69329_GreenSquare_SSDA_Stage3_R05_Rev1

Reference: © OpenStreetMap (and) contributors, CC-BY-SA



Legend

- The Site - Stage 3
- NSW Cadastre
- Green Square Town Centre
- Stage 3

Historic Features

- Former Council Depot Site
- Former Incinerator Site
- Former Police Site
- Former Police Helipad
- Former Quarry
- Former Dam

JBS&G

Job No: 69329

Client: Mirvac Green Square Pty Ltd

Version: R05 Rev 1	Date 5/11/2025
Drawn By: RF/AB	Checked By: CD

Scale 1:2,000

0 10 20

metres

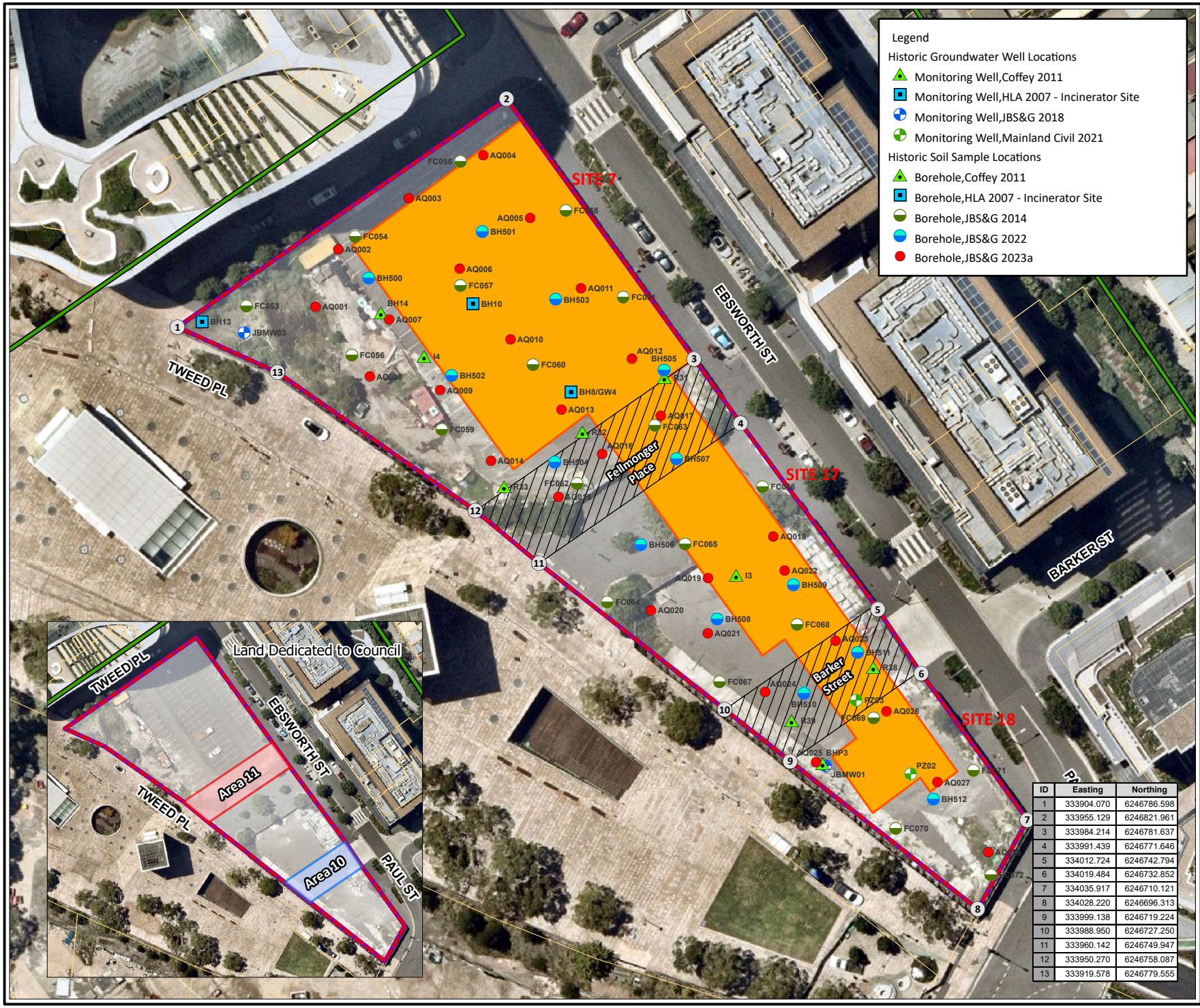
Coord. Sys. GDA 1994 MGA Zone 56

Green Square, NSW

SITE LAYOUT AND HISTORICAL FEATURES

FIGURE 2

File Name: 69329_GreenSquare_SSDA_Stage3_R05_Rev1
Reference: Nearmap - www.nearmap.com (Capture Date: 20250402)



Legend
- The Site - Stage 3
- NSW Cadastre
- Green Square Town Centre
- Stage 3

Proposed Development Layout
- Basement Footprint
- Development Block
- Road Reserve

Lands to be dedicated to Council
- Area 10
- Area 11

ID	Easting	Northing
1	333904.070	6246786.598
2	333955.129	6246821.961
3	333984.214	6246781.637
4	333991.439	6246771.646
5	334012.724	6246742.794
6	334019.484	6246732.852
7	334035.917	6246710.121
8	334028.220	6246696.313
9	333999.138	6246719.224
10	333988.950	6246727.250
11	333960.142	6246749.947
12	333950.270	6246758.087
13	333919.578	6246779.555

JBS&G

Job No: 69329

Client: Mirvac Green Square Pty Ltd

Version: R05 Rev 1 | Date 5/11/2025

Drawn By: RF/AB | Checked By: CD

Scale 1:800

0 7.5 15
metres

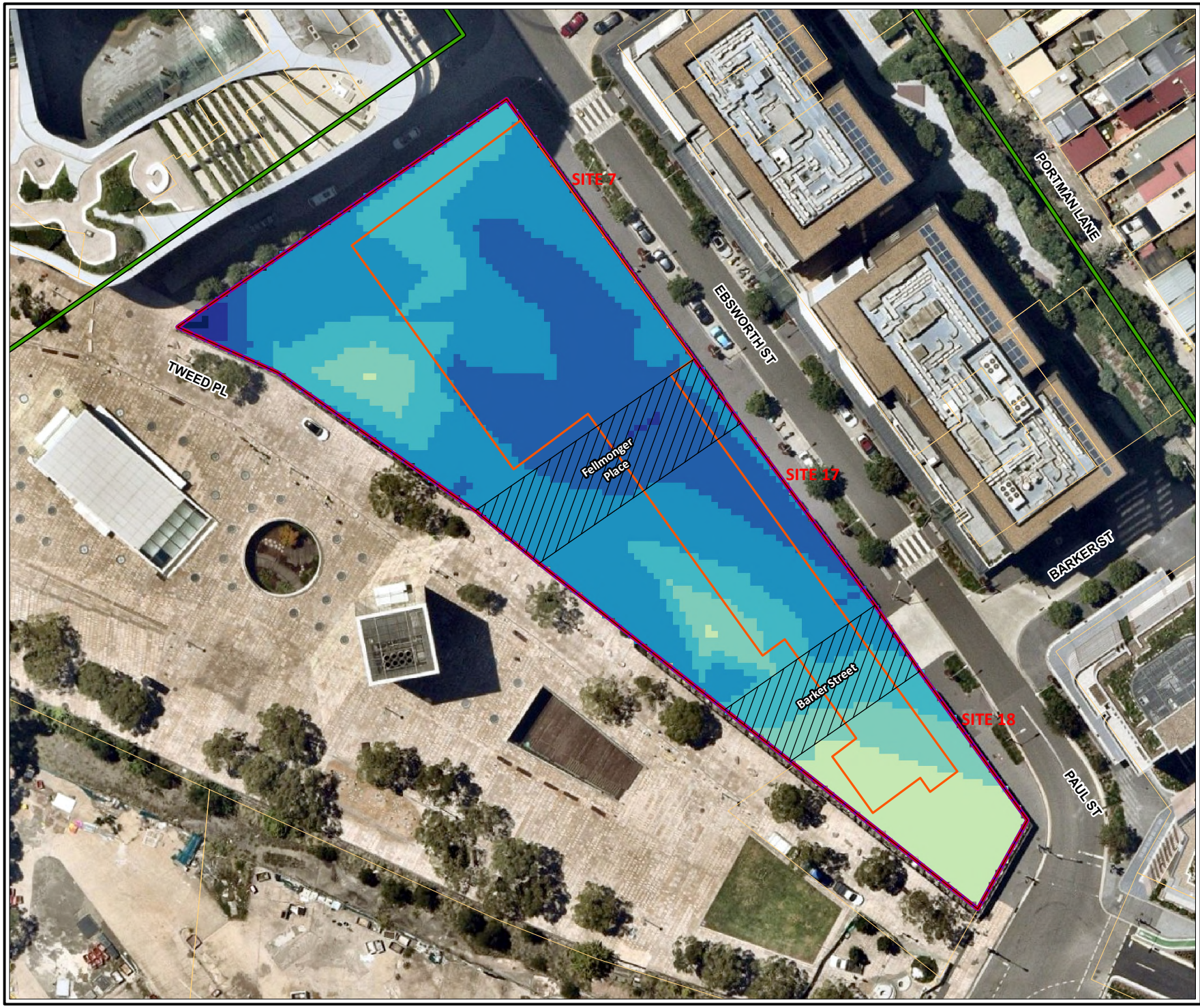
Coord. Sys. GDA 1994 MGA Zone 56

Green Square, NSW

PROPOSED DEVELOPMENT LAYOUT AND HISTORIC SAMPLE LOCATIONS

FIGURE 3

File Name: 69329_GreenSquare_SSDA_Stage3_R05_Rev1
Reference: Nearmap - www.nearmap.com (Capture Date: 20250402)



Legend

- The Site - Stage 3
- NSW Cadastre
- Green Square Town Centre
- Stage 3

Proposed Development Layout

- Basement Footprint
- Development Block
- Road Reserve

Fill Thickness (m)

- 4.01 - 6
- 6.01 - 8
- 8.01 - 10
- 10.01 - 12
- 12.01 - 14
- 14.01 - 16
- 16.01 - 18

JBS&G

Job No: 69329

Client: Mirvac Green Square Pty Ltd

Version: R05 Rev 1	Date 5/11/2025
Drawn By: RF/AB	Checked By: CD

Scale 1:800

0 7.5 15

metres

Coord. Sys. GDA 1994 MGA Zone 56

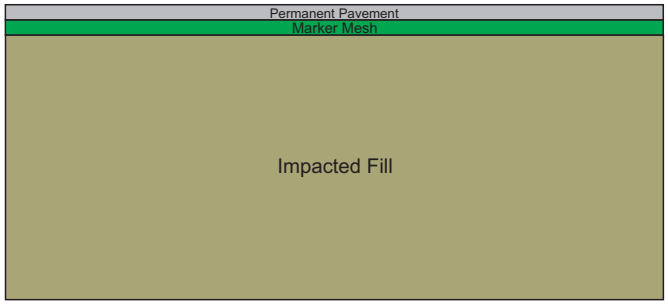
Green Square, NSW

DEPTH OF FILL (mbgs)

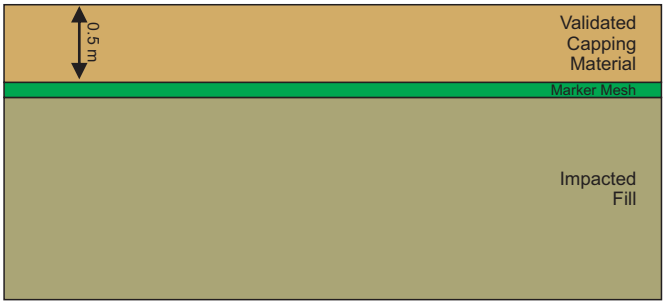
FIGURE 4

File Name: 69329_GreenSquare_SSDA_Stage3_R05_Rev1
Reference: Nearmap - www.nearmap.com (Capture Date: 20250402)

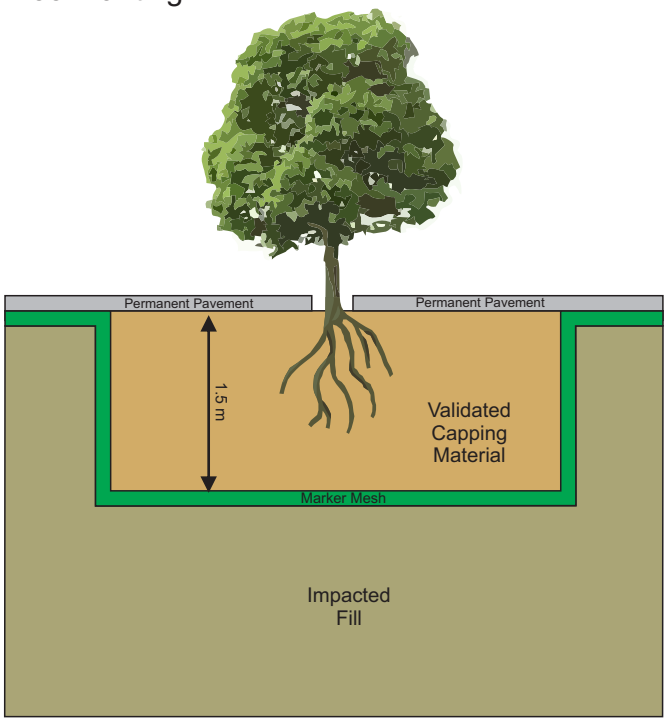
Paved Areas & Development Blocks



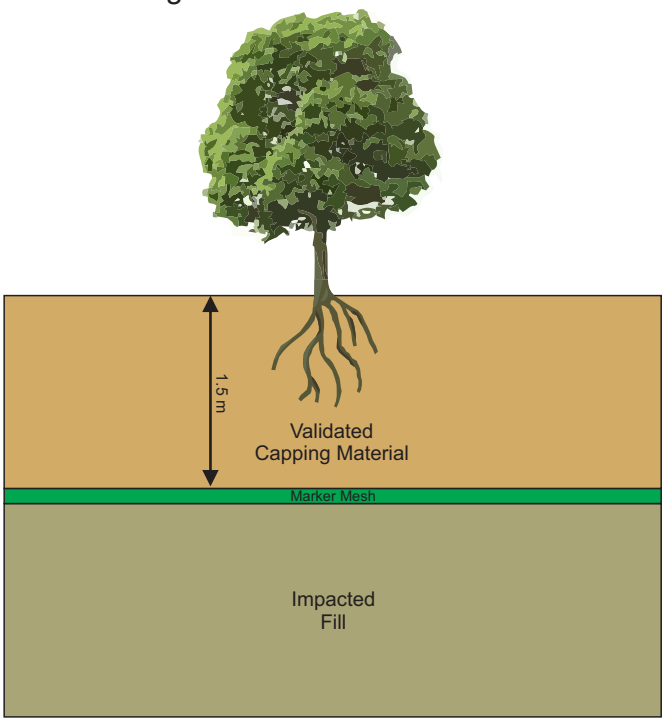
Unpaved Areas



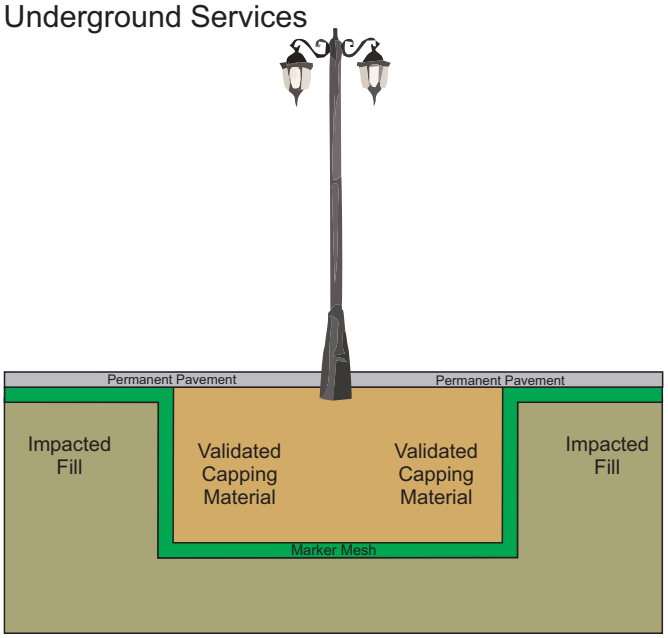
Tree Planting



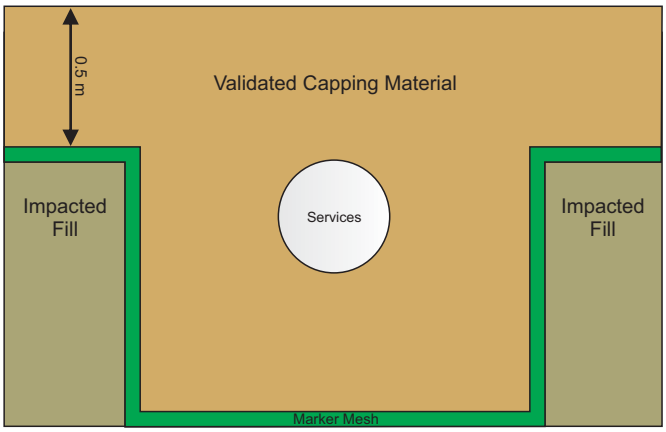
Tree Planting



Underground Services



Underground Services



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Scale: Various

Rev	Description	Drn.	Date
A4			
1	Original Issue - R05	RF	05/11/2025

JBS&G **Figure 5a: Capping Requirements**

Client: Mirvac Green Square Pty Ltd

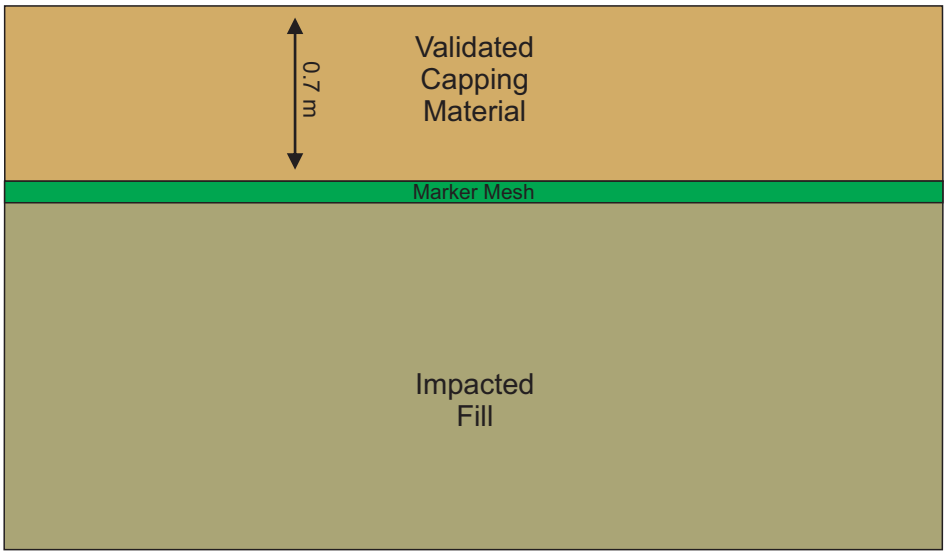
Project: Green Square - Stage 3

Job No: 69329 File Name: 69329

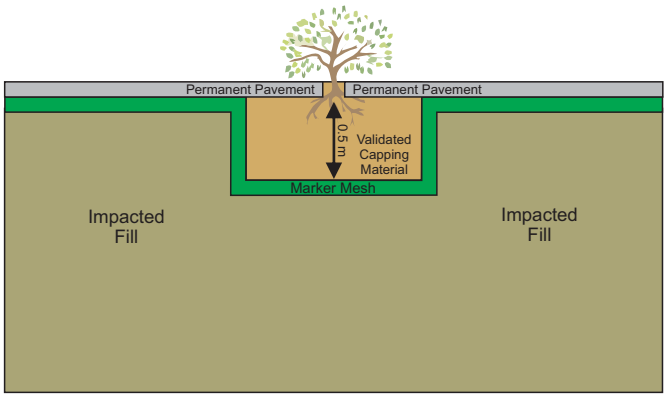
Land to be Dedicated to Council

Area 10 / 11

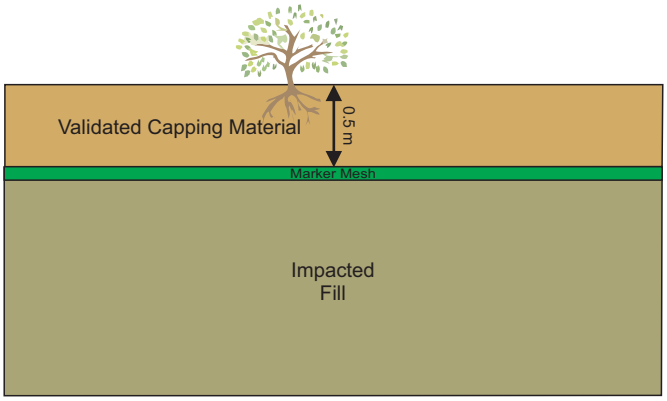
Surface finish as per design



Shallow Planting Zones



Shallow Planting Zones



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Scale: Various

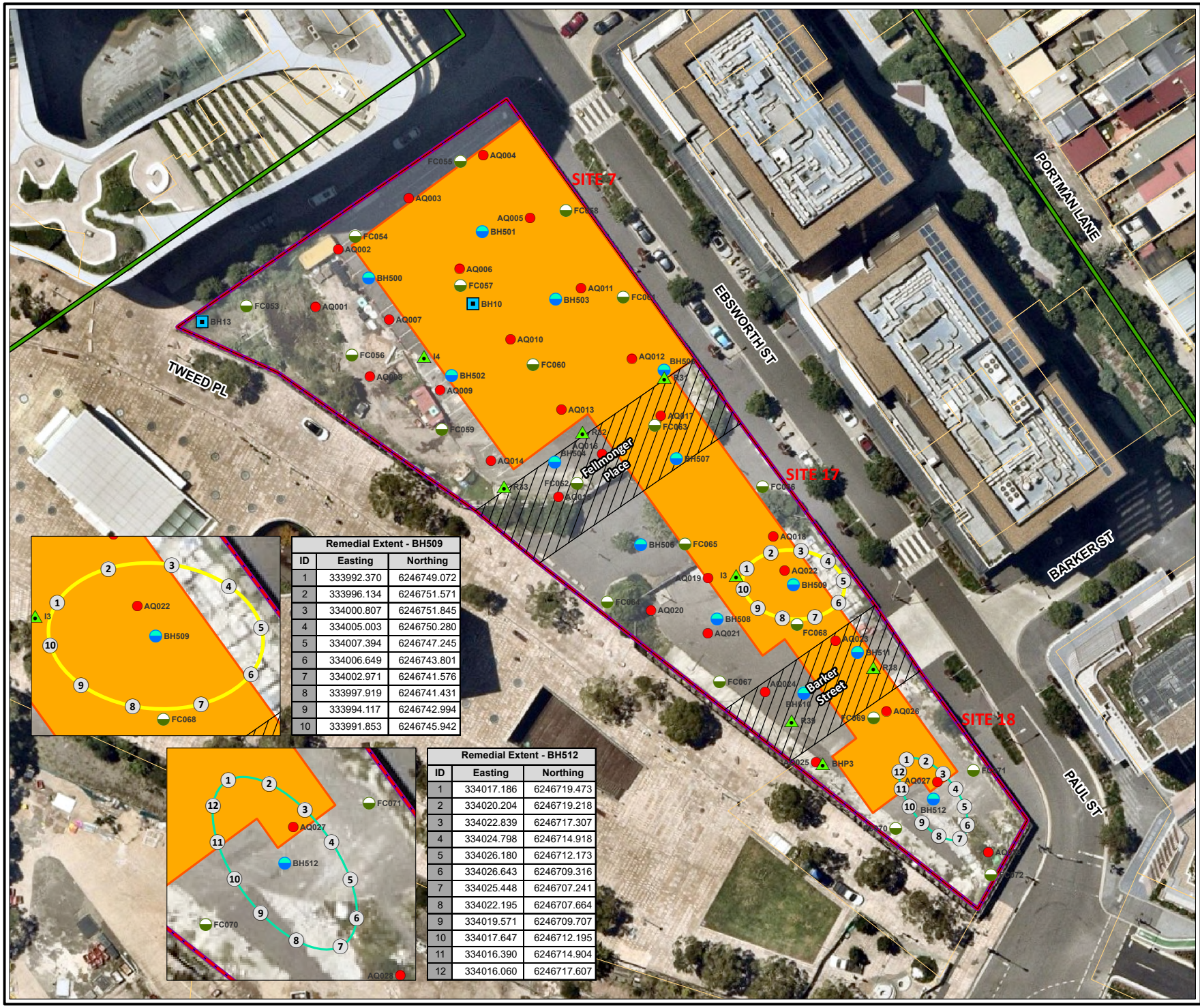
Rev	Description	Drn.	Date
A4			
1	Original Issue - R05	RF	05/11/2025

JBS&G **Figure 5b: Capping Requirements**

Client: Mirvac Green Square Pty Ltd

Project: Green Square - Stage 3

Job No: 69329 File Name: 69329



Remedial Extent - BH509		
ID	Easting	Northing
1	333992.370	6246749.072
2	333996.134	6246751.571
3	334000.807	6246751.845
4	334005.003	6246750.280
5	334007.394	6246747.245
6	334006.649	6246743.801
7	334002.971	6246741.576
8	333997.919	6246741.431
9	333994.117	6246742.994
10	333991.853	6246745.942

Remedial Extent - BH512		
ID	Easting	Northing
1	334017.186	6246719.473
2	334020.204	6246719.218
3	334022.839	6246717.307
4	334024.798	6246714.918
5	334026.180	6246712.173
6	334026.643	6246709.316
7	334025.448	6246707.241
8	334022.195	6246707.664
9	334019.571	6246709.707
10	334017.647	6246712.195
11	334016.390	6246714.904
12	334016.060	6246717.607

Legend

The Site - Stage 3
NSW Cadastre
Green Square Town Centre
Stage 3

Proposed Development Layout

Basement Footprint
Development Block
Road Reserve

Remedial Areas

Remedial Area BH509 to 5.75m
Remedial Area BH512 to 5.54m

Historic Soil Sample Locations

Borehole,Coffey 2011
Borehole,HLA 2007 - Incinerator Site
Borehole,JBS&G 2014
Borehole,JBS&G 2022
Borehole,JBS&G 2023a

JBS&G

Job No: 69329

Client: Mirvac Green Square Pty Ltd

Version: R05 Rev 1 | Date 5/11/2025

Drawn By: RF/AB | Checked By: CD

Scale 1:800

0 7.5 15
metres

Coord. Sys. GDA 1994 MGA Zone 56

Green Square, NSW

REMEDIAL EXTENTS

FIGURE 6

File Name: 69329_GreenSquare_SSDA_Stage3_R05_Rev1
Reference: Nearmap - www.nearmap.com (Capture Date: 20250402)

Summary Tables

Table A - Soil
Project Number: 69329
Project Name: SSDA Stage 3, 960A Bourke Street, Zetland

	Metals & Metalloids							
	Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	2	0.4	1	1	1	0.1	1	1
NEPM 2013 Table 1A(1) HILs Res B Soil	500[#1]	150	500[#2]	30,000	1,200[#3]	120[#4]	1,200	60,000
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay								
>=0m, <1m								
>=1m, <2m								
>=2m, <4m								
>=4m								
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand								
>=0m, <1m								
>=1m, <2m								
>=2m, <4m								
>=4m								
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space	100[#11]		190[#12]	60[#13]	1,100		30[#14]	70[#15]
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil								
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil								
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil								
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil								

Location Code	Field ID	Matrix Description	Date	Lab Report Number								
BH10	BH10_4.3-4.5	Fill - SAND	May 2007	HLA 2007	4	0.2	15	50	120	0.66	6	240
BH10	BH10_7-7.5	Fill - CLAY	May 2007	HLA 2007	10	0.5	12	77	470	1.1	10	520
BH13	BH13_0.3-0.4	Fill - SAND	May 2007	HLA 2007	8	0.4	8	85	220	0.27	22	230
BH13	BH13_7.6-8	Fill - SAND	May 2007	HLA 2007	2	<0.1	5	13	79	0.07	2	34
BH7	BH7_0.2-0.4	Fill - SAND	May 2007	HLA 2007	1	0.2	22	92	29	0.12	120	81
BH7	BH7_8.8-9	Fill - SAND	May 2007	HLA 2007	7	0.2	18	86	320	0.77	12	240
BH8	BH8_0.1-0.2	Fill - GRAVEL	May 2007	HLA 2007	<1	<0.1	19	81	3	<0.05	160	59
BH8	BH8_6-6.5	Fill - CLAY	May 2007	HLA 2007	3	0.1	7	11	79	0.43	4	83
BH14	BH14_2-2.1	Fill - SAND	07 Feb 2011	Coffey 2011	<3	<0.3	8.5	9.2	28	0.09	5.7	66
BH14	BH14_5-5.1	Fill - CLAY	08 Feb 2011	Coffey 2011	5	<0.3	11	16	68	0.7	7.1	51
BH14	BH14_8.2-8.3	Fill - SAND	08 Feb 2011	Coffey 2011	<3	<0.3	5.5	2.6	9	<0.05	3.7	23
BH500	BH500_0.5	Fill - SAND	17 Feb 2022	865678	<2	<0.4	5.5	30	11	<0.1	<5	14
BH500	BH500_2.0	Fill - SAND	17 Feb 2022	865678	8.8	<0.4	10	34	36	<0.1	9.0	58
BH500	QA20220217_PG6	Fill - SAND	17 Feb 2022	865678	8.5	<0.4	11	43	39	<0.1	7.2	59
BH500	QC20220217-PG6	Fill - SAND	17 Feb 2022	289593	9	<0.4	6	31	22	<0.1	5	35
BH500	BH500_3.5	Fill - SAND	17 Feb 2022	865678	11	<0.4	21	18	120	3.1	8.1	81
BH500	BH500_5.0	Fill - CLAY	17 Feb 2022	865678	4.2	<0.4	19	14	130	1.2	<5	67
BH500	BH500_6.5	Fill - CLAY	17 Feb 2022	865678	5.6	<0.4	17	29	48	0.7	11	93
BH500	BH500_8.0	Fill - CLAY	17 Feb 2022	865678	7.8	<0.4	13	36	27	0.1	10	81
BH500	BH500_9.5	Fill - CLAY	17 Feb 2022	865678	6.7	<0.4	12	30	35	0.2	13	100
BH500	BH500_11.0	Fill - CLAY	17 Feb 2022	865678	10	<0.4	12	26	28	<0.1	17	160
BH501	BH501_1.0	Fill - SAND	17 Feb 2022	865678	8.0	0.6	19	110	320	0.2	24	280
BH501	BH501_2.5	Fill - SAND	17 Feb 2022	865678	24	0.6	35	250	340	0.8	52	450
BH501	BH501_4.0	Fill - SAND	17 Feb 2022	865678	11	0.6	23	130	320	1.3	17	290
BH501	QA20220217_PG5	Fill - SAND	17 Feb 2022	865678	8.6	0.4	19	140	260	1.0	13	270
BH501	QC20220217-PG5	Fill - SAND	17 Feb 2022	289593	6	<0.4	12	70	180	0.8	8	150
BH501	BH501_5.5	Fill - CLAY	17 Feb 2022	865678	11	0.6	25	630	500	0.9	16	370
BH501	BH501_7.0	Fill - SAND	17 Feb 2022	865678	12	0.7	32	77	330	0.7	14	480
BH501	BH501_8.5	Fill - SAND	17 Feb 2022	865678	15	<0.4	33	67	210	0.4	25	280
BH501	BH501_10.0	Fill - CLAY	17 Feb 2022	865678	14	<0.4	24	45	170	0.4	20	230
BH501	BH501_11.5	Fill - CLAY	17 Feb 2022	865678	8.7	<0.4	13	7.0	21	<0.1	9.8	56
BH502	BH502_1.0	Fill - SAND	17 Feb 2022	865678	13	0.5	23	200	280	0.4	27	290
BH502	BH502_2.0	Fill - SAND	17 Feb 2022	865678	8.3	<0.4	20	94	170	0.3	23	210
BH502	BH502_3.5	Fill - SAND	17 Feb 2022	865678	6.4	<0.4	20	310	120	0.2	8.7	440
BH502	BH502_5.0	Fill - SAND	17 Feb 2022	865678	4.7	<0.4	13	110	310	1.9	<5	270
BH502	BH502_6.5	Fill - SAND	17 Feb 2022	865678	4.9	<0.4	13	110	360	1.9	<5	260
BH502	BH502_8.0	Fill - CLAY	17 Feb 2022	865678	5.5	<0.4	18	100	250	1.3	<5	250
BH502	BH502_9.5	Fill - CLAY	17 Feb 2022	865678	4.9	<0.4	19	88	220	1.2	<5	200
BH502	BH502_11.0	Fill - CLAY	17 Feb 2022	865678	12	<0.4	25	23	25	<0.1	27	170
BH502	BH502_12.5	Fill - CLAY	17 Feb 2022	865678	6.0	<0.4	14	50	96	0.4	7.6	130
BH503	BH503_0.5	Fill - SAND	17 Feb 2022	865678	2.2	<0.4	12	27	25	<0.1	6.8	49
BH503	BH503_2.0	Fill - SAND	17 Feb 2022	865678	8.0	0.8	18	440	540	1.3	80	920
BH503	BH503_3.5	Fill - SAND	17 Feb 2022	865678	12	1.3	26	440	1,600	0.8	25	1,500
BH503	BH503_5.0	Fill - SAND	17 Feb 2022	865678	23	3.0	62	2,600	2,300	0.5	360	2,100
BH503	BH503_6.5	Fill - SAND	17 Feb 2022	865678	11	1.2	36	970	630	1.1	47	1,100
BH503	BH503_8.0	Fill - CLAY	17 Feb 2022	865678	20	0.5	27	200	1,400	0.3	43	490
BH503	BH503_9.5	Fill - CLAY	17 Feb 2022	865678	16	0.7	34	880	820	0.5	44	560
BH503	BH503_11.0	Fill - CLAY	17 Feb 2022	865678	9.4	0.7	21	220	720	0.5	28	530
BH503	BH503_12.5	Fill - CLAY	17 Feb 2022	865678	6.2	<0.4	17	26	58	<0.1	17	130
BH504	BH504_0.5	Fill - SAND	17 Feb 2022	865678	3.8	<0.4	28	71	51	<0.1	19	110
BH504	QA20220217_PG2	Fill - SAND	17 Feb 2022	865678	3.6	0.4	16	66	220	0.3	21	200
BH504	QC20220217-PG2	Fill - SAND	17 Feb 2022	289593	<4	0.5	18	170	210	0.3	22	180
BH504	BH504_2.0	Fill - SAND	17 Feb 2022	865678	3.4	<0.4	13	65	230	0.2	8.8	140
BH504	BH504_3.5	Fill - SAND	17 Feb 2022	865678	4.4	0.6	38	130	260	0.3	27	230
BH504	QA20220217_PG3	Fill - SAND	17 Feb 2022	865678	3.8	0.5	18	130	280	0.3	20	270
BH504	QC20220217-PG3	Fill - SAND	17 Feb 2022	289593	<4	<0.4	14	110	170	0.2	13	130
BH504	BH504_4.5	Fill - SAND	17 Feb 2022	865678	6.4	1.2	24	210	470	0.3	24	580
BH504	BH504_6.0	Fill - SAND	17 Feb 2022	865678	12	1.5	23	360	840	0.4	26	760
BH504	BH504_7.5	Fill - SAND	17 Feb 2022	865678	32	1.3	41	2,900	2,800	0.5	320	1,400
BH504	BH504_9.0	Fill - CLAY	17 Feb 2022	865678	14	0.6	21	420	500	0.3	18	510
BH504	BH504_10.5	Fill - CLAY	17 Feb 2022	865678	19	0.6	25	250	560	0.2	26	630
BH504	BH504_12.0	Fill - CLAY	17 Feb 2022	865678	20	0.5	180	570	3,500	0.1	31	310
BH505	BH505_1.5	Fill - SAND	17 Feb 2022	865678	7.6	0.8	16	100	270	0.4	13	290
BH505	BH505_3.0	Fill - SAND	17 Feb 2022	865678	11	1.1	22	160	430	0.9	19	410
BH505	QA20220217_PG4	Fill - SAND	17 Feb 2022	865678	9.5	0.9	26	150	410	0.6	20	460
BH505	QC20220217-PG4	Fill - SAND	17 Feb 2022	289593	6	0.8	15	100	290	0.4	12	250
BH505	BH505_4.5	Fill - SAND	17 Feb 2022	865678	10	36	24	130	280	0.6	21	340
BH505	BH505_6.0	Fill - SAND	17 Feb 2022	865678	7.4	1.0	27	190	2,300	0.5	15	310
BH505	BH505_7.5	Fill - SAND	17 Feb 2022	865678	7.4	1.2	36	140	390	0.8	18	460
BH505	BH505_9.0	Fill - SAND	17 Feb 2022	865678	8.1	1.2	31	130	470	0.7	19	480
BH505	BH505_10.5	Fill - SAND	17 Feb 2022	865678	9.4	1.0	31	130	400	0.7	17	430
BH505	BH505_11.5	Fill - SAND	17 Feb 2022	865678	8.5	1.3	22	140	360	0.6	16	370
BH506	BH506_1.0	Fill - SAND	17 Feb 2022	865678	6.6	0.5	27	110	240	0.3	20	290

Table A - Soil
Project Number: 69329
Project Name: SSDA Stage 3, 960A Bourke Street, Zetland

	Metals & Metalloids							
	Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	2	0.4	1	1	1	0.1	1	1
NEPM 2013 Table 1A(1) HILs Res B Soil	500[#1]	150	500[#2]	30,000	1,200[#3]	120[#4]	1,200	60,000
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay								
>=0m, <1m								
>=1m, <2m								
>=2m, <4m								
>=4m								
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand								
>=0m, <1m								
>=1m, <2m								
>=2m, <4m								
>=4m								
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space	100[#11]		190[#12]	60[#13]	1,100		30[#14]	70[#15]
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil								
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil								
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil								
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil								

Location Code	Field ID	Matrix Description	Date	Lab Report Number								
BH506	BH506_2.5	Fill - SAND	17 Feb 2022	865678	7.6	2.3	81	4,200	640	0.4	18	730
BH506	BH506_4.0	Fill - SAND	17 Feb 2022	865678	6.1	1.1	91	150	340	0.4	15	430
BH506	BH506_5.0	Fill - SAND	17 Feb 2022	865678	5.0	0.9	25	100	330	0.2	11	430
BH506	BH506_6.5	Fill - SAND	17 Feb 2022	865678	5.2	0.8	22	170	240	0.2	9.0	300
BH506	BH506_8.0	Fill - SAND	17 Feb 2022	865678	10	13	9.4	48	180	0.1	7.1	4,300
BH506	BH506_9.0	Fill - SAND	17 Feb 2022	865678	12	15	18	450	780	0.2	14	5,200
BH507	BH507_0.5	Fill - SAND	17 Feb 2022	865678	<2	<0.4	27	39	<5	<0.1	38	46
BH507	BH507_1.5	Fill - SAND	17 Feb 2022	865678	6.3	1.2	26	68	210	0.3	26	310
BH507	QA20220217_PG1	Fill - SAND	17 Feb 2022	865678	4.6	0.7	25	90	240	0.4	33	240
BH507	QC20220217-PG1	Fill - SAND	17 Feb 2022	289593	4	0.6	14	81	210	0.4	21	170
BH507	BH507_3.0	Fill - SAND	17 Feb 2022	865678	4.1	0.5	13	59	140	0.2	13	190
BH507	BH507_4.5	Fill - SAND	17 Feb 2022	865678	3.4	0.5	16	64	330	0.2	14	200
BH507	BH507_6.0	Fill - SAND	17 Feb 2022	865678	4.7	0.6	22	100	250	0.3	23	300
BH507	BH507_7.5	Fill - SAND	17 Feb 2022	865678	4.1	<0.4	12	69	290	0.3	6.0	200
BH507	BH507_9.0	Fill - SAND	17 Feb 2022	865678	3.8	0.4	10	33	200	0.3	<5	200
BH507	BH507_10.5	Fill - SAND	17 Feb 2022	865678	3.8	<0.4	14	40	210	0.2	<5	180
BH507	BH507_12.0	Fill - SAND	17 Feb 2022	865678	6.0	0.5	16	68	280	0.4	6.4	260
BH508	BH508_0.5	Fill - SAND	18 Feb 2022	866070	2.7	<0.4	7.2	84	26	<0.1	10	44
BH508	BH508_2.0	Fill - GRAVEL	18 Feb 2022	866070	5.3	<0.4	6.9	83	110	0.2	13	190
BH508	BH508_3.5	Fill - SAND	18 Feb 2022	866070	5.4	<0.4	13	110	180	1.5	13	190
BH508	BH508_4.5	Fill - SAND	18 Feb 2022	866070	6.6	<0.4	14	110	200	1.9	17	230
BH508	BH508_6.0	Fill - SAND	18 Feb 2022	866070	<2	<0.4	<5	<5	9.8	<0.1	<5	63
BH508	BH508_7.0	Fill - SAND	18 Feb 2022	866070	<2	<0.4	<5	9.4	60	0.1	<5	86
BH509	BH509_0.5	Fill - SAND	18 Feb 2022	866070	<2	<0.4	<5	69	11	<0.1	6.9	34
BH509	BH509_2.0	Fill - SAND	18 Feb 2022	866070	7.3	1.3	14	110	370	0.5	14	320
BH509	BH509_2.5	Fill - SAND	18 Feb 2022	866070	6.4	3.4	15	110	280	0.3	22	470
BH509	QA20220218PG3	Fill - SAND	18 Feb 2022	866070	6.8	3.3	16	120	340	0.3	19	550
BH509	QC20220218-PG3	Fill - SAND	18 Feb 2022	289684	7	2	14	110	250	0.4	17	380
BH509	BH509_3.5	Fill - SAND	18 Feb 2022	866070	14	1.0	33	100	1,200	0.6	18	790
BH509	BH509_5.0	Fill - SAND	18 Feb 2022	866070	14	0.9	21	100	320	0.4	17	520
BH509	BH509_6.5	Fill - SAND	18 Feb 2022	866070	11	12	44	280	570	0.8	68	340
BH509	BH509_7.5	Fill - SAND	18 Feb 2022	866070	6.7	18	18	350	510	0.3	23	270
BH510	BH510_1.0	Fill - SAND	18 Feb 2022	866070	18	0.5	18	81	160	0.2	17	200
BH510	BH510_2.5	Fill - SAND	18 Feb 2022	866070	14	1.2	25	160	400	0.6	25	510
BH510	BH510_4.0	Fill - CLAY	18 Feb 2022	866070	9.0	<0.4	21	36	110	0.1	6.8	180
BH510	BH510_5.5	Fill - SAND	18 Feb 2022	866070	15	1.2	57	730	470	0.5	70	860
BH510	BH510_7.0	Fill - SAND	18 Feb 2022	866070	11	0.8	35	360	380	0.4	38	590
BH510	BH510_8.0	Fill - SAND	18 Feb 2022	866070	6.8	0.5	24	210	300	0.2	21	340
BH511	BH511_0.5	Fill - SAND	18 Feb 2022	866070	<2	<0.4	5.6	44	17	<0.1	<5	32
BH511	BH511_2.0	Fill - SAND	18 Feb 2022	866070	7.7	0.7	13	29	170	0.2	<5	89
BH511	BH511_3.5	Fill - SAND	18 Feb 2022	866070	10.0	1.0	30	110	430	0.3	12	220
BH511	BH511_5.0	Fill - SAND	18 Feb 2022	866070	6.8	0.4	28	61	270	0.2	6.4	130
BH511	BH511_6.5	Fill - SAND	18 Feb 2022	866070	7.2	<0.4	19	170	560	0.9	17	360
BH511	BH511_8.0	Fill - SAND	18 Feb 2022	866070	5.1	<0.4	11	96	360	0.4	6.7	280
BH512	BH512_0.5	Fill - SAND	18 Feb 2022	866070	<2	<0.4	6.5	28	13	<0.1	6.2	23
BH512	BH512_2.0	Fill - CLAY	18 Feb 2022	866070	9.0	<0.4	13	46	180	0.1	8.4	180
BH512	QA20220218PG1	Fill - CLAY	18 Feb 2022	866070	10	<0.4	12	53	110	0.2	6.9	160
BH512	QC20220218-PG1	Fill - CLAY	18 Feb 2022	289684	<4	<0.4	8	36	76	0.1	4	91
BH512	BH512_2.5	Fill - CLAY	18 Feb 2022	866070	47	<0.4	26	180	720	0.1	12	140
BH512	BH512_3.5	Fill - GRAVEL	18 Feb 2022	866070	570	0.9	23	1,100	5,100	0.3	39	130
BH512	BH512_4.5	Fill - GRAVEL	18 Feb 2022	866070	77	0.6	16	170	1,100	0.2	12	81
BH512	BH512_5.5	Fill - GRAVEL	18 Feb 2022	866070	38	<0.4	16	95	360	0.2	25	74
BHP3	BHP3_0.5-0.6	Fill_SAND	01 Feb 2011	Coffey 2011	5	0.5	8.2	90	130	0.17	7.2	160
BHP3	BHP3_2-2.1	Fill_CLAY	01 Feb 2011	Coffey 2011	25	<0.3	11	55	200	0.7	3.9	120
BHP3	BHP3_5.5-5.6	SAND	01 Feb 2011	Coffey 2011	3	<0.3	3.5	15	50	0.2	1.9	25
FC053	FC053_0-0.1	Fill_SAND	JBS&G 2014	403832	4.3	0.4	9.9	63	130	0.29	40	120
FC053	FC053_0-0.1	Fill_SAND	JBS&G 2014	404625	-	-	-	-	-	-	-	-
FC053	FC053_2-2.1	Fill_SAND	JBS&G 2014	403832	9	0.5	10	66	200	0.53	17	170
FC053	FC053_2-2.1	Fill_SAND	JBS&G 2014	404625	-	-	-	-	-	-	-	-
FC054	FC054_0.5	Fill_SAND	JBS&G 2014	403832	4.5	0.8	7	38	110	0.21	33	470
FC054	FC054_1-1.1	Fill_SAND	JBS&G 2014	403832	3.9	<0.4	5.9	23	55	0.16	<5	73
FC055	FC055_0-0.1	Fill_SAND	JBS&G 2014	403832	22	2.8	14	200	8,600	0.86	19	1,700
FC055	FC055_0-0.1	Fill_SAND	JBS&G 2014	404625	-	-	-	-	-	-	-	-
FC055	QC01	Fill_SAND	JBS&G 2014	403832	11	1.2	26	370	780	0.47	35	680
FC055	QC01	Fill_SAND	JBS&G 2014	404625	-	-	-	-	-	-	-	-
FC055	QC01-A	Fill_SAND	JBS&G 2014	102718	9	1.4	12	100	1,500	1	14	670
FC055	FC055_1-1.1	Fill_SAND	JBS&G 2014	403832	5	0.7	7.8	78	470	1.5	12	270
FC055	FC055_1-1.1	Fill_SAND	JBS&G 2014	404625	-	-	-	-	-	-	-	-
FC055	FC055_4-4.1	Fill_SAND	JBS&G 2014	403832	11	1.6	26	2,700	1,100	3.3	260	1,300
FC055	FC055_4-4.1	Fill_SAND	JBS&G 2014	404625	-	-	-	-	-	-	-	-
FC056	FC056_2-2.1	Fill_SAND	JBS&G 2014	403832	12	<0.4	<5	110	250	0.12	7.8	160
FC056	FC056_3-3.1	Fill_SAND	JBS&G 2014	403832	12	0.4	10	32	90	0.38	16	140
FC057	FC057_0-0.1	Fill_SAND	JBS&G 2014	403941	<2	1.6	33	230	340	0.2	30	370
FC057	FC057_0-0.1	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-

Table A - Soil
Project Number: 69329
Project Name: SSDA Stage 3, 960A Bourke Street, Zetland

	Metals & Metalloids							
	Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	2	0.4	1	1	1	0.1	1	1
NEPM 2013 Table 1A(1) HILs Res B Soil	500[#1]	150	500[#2]	30,000	1,200[#3]	120[#4]	1,200	60,000
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay								
>=0m, <1m								
>=1m, <2m								
>=2m, <4m								
>=4m								
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand								
>=0m, <1m								
>=1m, <2m								
>=2m, <4m								
>=4m								
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space	100[#11]		190[#12]	60[#13]	1,100		30[#14]	70[#15]
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil								
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil								
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil								
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil								

Location Code	Field ID	Matrix Description	Date	Lab Report Number								
FC057	FC057_2-2.1	Fill_SAND	JBS&G 2014	403941	<2	1.3	11	280	460	0.41	11	280
FC058	FC058_0.5-0.6	Fill_SAND	JBS&G 2014	403941	<2	1.8	8	110	240	0.12	15	330
FC058	FC058_0.5-0.6	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-
FC058	QC02	Fill_SAND	JBS&G 2014	403941	3.8	1.6	9.1	120	500	0.12	18	370
FC058	QC02	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-
FC058	QC02-A	Fill_SAND	JBS&G 2014	102801	8	0.5	10	93	330	0.3	13	290
FC058	FC058_5-5.1	Fill_SAND	JBS&G 2014	403941	<2	3	14	170	550	0.24	19	390
FC058	FC058_5-5.1	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-
FC059	FC059_0.5-0.6	Fill_SAND	JBS&G 2014	403941	<2	1.9	19	120	570	0.56	12	470
FC059	FC059_0.5-0.6	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-
FC059	FC059_1-1.1	Fill_SAND	JBS&G 2014	403941	30	3.8	46	3,100	2,400	2.6	55	3,200
FC059	FC059_1-1.1	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-
FC060	FC060_1-1.1	Fill_SAND	JBS&G 2014	403941	<2	4.9	30	240	680	0.47	21	600
FC060	FC060_2-2.1	Fill_SAND	JBS&G 2014	403941	4.6	3.1	47	760	1,600	3.8	27	1,600
FC060	FC060_2-2.1	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-
FC060	FC060_3-3.1	Fill_SAND	JBS&G 2014	403941	8.2	3.3	17	1,000	700	0.62	34	1,200
FC060	FC060_3-3.1	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-
FC061	FC061_1-1.1	Fill_SAND	JBS&G 2014	403941	<2	1.7	13	170	380	0.24	18	400
FC061	FC061_1-1.1	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-
FC061	FC061_3-3.1	Fill_SAND	JBS&G 2014	403941	<2	5.6	26	220	490	0.3	20	650
FC061	FC061_3-3.1	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-
FC062	FC062_0.1-0.2	Fill_SAND	JBS&G 2014	405422	7.8	1.3	18	210	470	2	48	510
FC062	FC062_0.1-0.2	Fill_SAND	JBS&G 2014	406078	-	-	-	-	-	-	-	-
FC062	QC05	Fill_SAND	JBS&G 2014	405422	4.1	1.3	27	210	470	2.6	78	430
FC062	QC05-A	Fill_SAND	JBS&G 2014	103460	4	0.6	16	140	260	0.8	40	280
FC062	FC062_3.8-4	Fill_CLAY	JBS&G 2014	405422	2.6	0.4	7	59	120	0.95	6.6	120
FC063	FC063_1.6-1.8	Fill_SAND	JBS&G 2014	405422	9.7	1.2	20	190	400	0.98	21	460
FC063	FC063_1.6-1.8	Fill_SAND	JBS&G 2014	406078	-	-	-	-	-	-	-	-
FC063	FC063_3.8-4	Fill_SAND	JBS&G 2014	405422	3.5	0.6	10	89	190	0.38	14	200
FC064	FC064_0.1-0.2	Fill_SAND	JBS&G 2014	405524	41	5.3	26	160	350	1.1	62	1,800
FC064	FC064_0.1-0.2	Fill_SAND	JBS&G 2014	406267	-	-	-	-	-	-	-	-
FC064	FC064_0.5-0.7	Fill_GRAVEL	JBS&G 2014	405524	<2	0.4	<5	50	41	0.08	10	58
FC064	FC064_3.1-3.3	Fill_SAND	JBS&G 2014	405524	33	23	120	830	5,900	0.44	44	11,000
FC064	FC064_3.1-3.3	Fill_SAND	JBS&G 2014	406267	-	-	-	-	-	-	-	-
FC064	FC064_4.7-4.9	Fill_CLAY	JBS&G 2014	405524	11	1	13	750	75	0.1	13	1,400
FC065	FC065_0.1-0.2	Fill_SAND	JBS&G 2014	405524	<2	0.7	25	65	140	0.21	48	180
FC065	FC065_0.5-0.7	Fill_CLAY	JBS&G 2014	405524	4.5	3.5	11	67,000	1,800	0.32	62	26,000
FC065	FC065_0.5-0.7	Fill_CLAY	JBS&G 2014	406267	-	-	-	-	-	-	-	-
FC065	FC065_1-1.2	Fill_CLAY	JBS&G 2014	405524	<2	1.3	18	77	460	0.38	14	270
FC065	FC065_1-1.2	Fill_CLAY	JBS&G 2014	406267	-	-	-	-	-	-	-	-
FC065	FC065_2.3-2.5	Fill_CLAY	JBS&G 2014	405524	3	<0.4	6.6	130	230	0.27	<5	120
FC065	FC065_2.3-2.5	Fill_CLAY	JBS&G 2014	406267	-	-	-	-	-	-	-	-
FC065	FC065_3-3.2	Fill_SAND	JBS&G 2014	405524	15	<0.4	<5	77	140	0.33	<5	160
FC066	FC066_0.5-0.7	Fill_SAND	JBS&G 2014	405524	3.9	0.8	11	190	310	0.83	33	260
FC066	FC066_0.5-0.7	Fill_SAND	JBS&G 2014	406267	-	-	-	-	-	-	-	-
FC066	FC066_1.5-1.7	Fill_SAND	JBS&G 2014	405524	3.8	3.6	12	170	300	0.51	18	380
FC066	FC066_1.5-1.7	Fill_SAND	JBS&G 2014	406267	-	-	-	-	-	-	-	-
FC066	FC066_2.5-2.7	Fill_SAND	JBS&G 2014	405524	6.6	1.3	11	140	180	0.39	12	190
FC066	FC066_2.5-2.7	Fill_SAND	JBS&G 2014	406267	-	-	-	-	-	-	-	-
FC066	FC066_3.1-3.3	Fill_SAND	JBS&G 2014	405524	5.8	<0.4	<5	280	10	<0.05	<5	37
FC067	FC067_0.5-0.6	Fill_SAND	JBS&G 2014	405524	4.5	0.6	6.4	250	320	0.27	12	260
FC067	FC067_0.5-0.6	Fill_SAND	JBS&G 2014	406267	-	-	-	-	-	-	-	-
FC067	FC067_0.9-1.1	Fill_GRAVEL	JBS&G 2014	405524	<2	<0.4	<5	45	43	0.28	7.2	64
FC067	FC067_3.1-3.3	Fill_SAND	JBS&G 2014	405524	<2	0.4	<5	72	180	1.1	7.6	220
FC068	FC068_0.1-0.2	Fill_SAND	JBS&G 2014	405524	4.3	2.2	20	450	350	0.6	23	420
FC068	FC068_0.1-0.2	Fill_SAND	JBS&G 2014	406267	-	-	-	-	-	-	-	-
FC068	FC068_1.1-1.3	Fill_CLAY	JBS&G 2014	405524	5.2	3.4	13	190	430	2	16	590
FC068	FC068_1.1-1.3	Fill_CLAY	JBS&G 2014	406267	-	-	-	-	-	-	-	-
FC068	FC068_4.8-5	Fill_CLAY	JBS&G 2014	405524	2.6	0.8	5.8	82	340	0.31	5.8	240
FC068	FC068_4.8-5	Fill_CLAY	JBS&G 2014	406267	-	-	-	-	-	-	-	-
FC069	FC069_6-6.1	Fill_SAND	JBS&G 2014	405819	7.1	<0.4	39	24	99	0.11	12	49
FC069	FC069_6-6.1	Fill_SAND	JBS&G 2014	406432	-	-	-	-	-	-	-	-
FC069	FC069_8-8.1	SAND	JBS&G 2014	405819	<2	<0.4	130	22	51	0.26	<5	64
FC069	FC069_8-8.1	SAND	JBS&G 2014	406432	-	-	-	-	-	-	-	-
FC070	FC070_0.1-0.2	Fill_SAND	JBS&G 2014	405454	5.2	0.7	7.8	140	350	0.43	10	310
FC070	FC070_0.1-0.2	Fill_SAND	JBS&G 2014	406249	-	-	-	-	-	-	-	-
FC070	FC070_0.5-0.6	Fill_SAND	JBS&G 2014	405454	4.8	0.6	8.2	150	260	0.67	9.9	340
FC070	FC070_0.5-0.6	Fill_SAND	JBS&G 2014	406249	-	-	-	-	-	-	-	-
FC070	FC070_6-6.1	Fill_SAND	JBS&G 2014	405819	3	<0.4	15	<5	12	<0.05	<5	27
FC070	QC18	Fill_SAND	JBS&G 2014	405819	<2	<0.4	25	<5	19	<0.05	<5	72
FC070	QC18-A	Fill_SAND	JBS&G 2014	103629	<4	<0.4	16	2	12	<0.1	1	11
FC071	FC071_0.5-0.8	Fill_SAND	JBS&G 2014	405454	10	0.4	8.4	120	300	0.68	8.3	150
FC071	FC071_0.5-0.8	Fill_SAND	JBS&G 2014	406249	-	-	-	-	-	-	-	-
FC071	FC071_2.8-3	Fill_SAND	JBS&G 2014	405454	5.8	<0.4	<5	19	780	0.37	<5	93

Table A - Soil
Project Number: 69329
Project Name: SSDA Stage 3, 960A Bourke Street, Zetland

	Metals & Metalloids							
	Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	2	0.4	1	1	1	0.1	1	1
NEPM 2013 Table 1A(1) HILs Res B Soil	500[#1]	150	500[#2]	30,000	1,200[#3]	120[#4]	1,200	60,000
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay								
>=0m, <1m								
>=1m, <2m								
>=2m, <4m								
>=4m								
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand								
>=0m, <1m								
>=1m, <2m								
>=2m, <4m								
>=4m								
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space	100[#11]		190[#12]	60[#13]	1,100		30[#14]	70[#15]
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil								
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil								
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil								
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil								

Location Code	Field ID	Matrix Description	Date	Lab Report Number								
FC071	FC071_2.8-3	Fill_SAND	JBS&G 2014	406249	-	-	-	-	-	-	-	-
FC071	FC071_4.8-5	Fill_SAND	JBS&G 2014	405454	46	0.6	6.8	95	520	1	5.6	210
FC071	FC071_4.8-5	Fill_SAND	JBS&G 2014	406249	-	-	-	-	-	-	-	-
FC071	FC071_6-6.1	Fill_SAND	JBS&G 2014	405819	6.7	<0.4	38	41	160	0.23	6.3	78
FC071	FC071_6-6.1	Fill_SAND	JBS&G 2014	406432	-	-	-	-	-	-	-	-
FC071	FC071_8-8.1	Fill_SAND	JBS&G 2014	405819	4.3	<0.4	42	18	97	0.12	<5	43
FC072	FC072_0.4-0.6	Fill_SAND	JBS&G 2014	405454	<2	<0.4	<5	<5	<5	<0.05	<5	<5
FC072	FC072_1.5-0.7	Fill_CLAY	JBS&G 2014	405454	<2	<0.4	8.3	<5	6.2	0.17	<5	7
FC072	FC072_2.9-3.1	Fill_CLAY	JBS&G 2014	405454	<2	<0.4	<5	5.4	14	<0.05	<5	5.4
FC072	FC072_6-6.1	Fill_CLAY	JBS&G 2014	405819	5.2	<0.4	33	22	110	0.27	<5	130
FC072	FC072_6-6.1	Fill_CLAY	JBS&G 2014	406432	-	-	-	-	-	-	-	-
I3	I3_3.9-4	Fill - SAND	04 Feb 2011	Coffey 2011	4	0.4	9.5	59	140	0.25	6.1	160
I3	I3_5.4-5.5	Fill - CLAY	04 Feb 2011	Coffey 2011	4	<0.3	13	33	430	2.1	4.3	140
R31	R31_0.5-0.6	Fill - SAND	04 Feb 2011	Coffey 2011	6	0.9	13	150	430	0.68	14	410
R32	R32_0.5-0.6	Fill - SAND	03 Feb 2011	Coffey 2011	4	0.5	8	120	1,100	1	7.4	340
R32	R32_2-2.1	Fill - SAND	03 Feb 2011	Coffey 2011	8	0.8	27	190	210	0.11	36	190
R33	R33_1.5-1.6	Fill - SAND	04 Feb 2011	Coffey 2011	9	0.5	43	300	310	0.39	26	330

Comments

#1 Arsenic: HIL assumes 70% oral bioavailability. Site-specific bioavailability maybe important and should be considered where appropriate (refer Shedule B7).
#2 Trigger Value adopted from Chromium (VI)
#3 Lead: HILs A,B,C based on blood lead models (IEUBK & HIL D on adult lead model for where 50% bioavailability considered. Site-specific bioavailability should be considered where appropriate.

#4 Elemental mercury: HIL does not address elemental mercury. a site specific assessment should be considered if elemental mercury is present, or suspected to be present.

#5 Carcinogenic PAHs: HIL based on 8 carc. PAHs & their TEFs (rel to BaP ref Schedule 7) BaP TEQ calc by multiplying the conc of each carc. PAH in sample by its BaP TEF (ref Table 1A(1)) & summing

#6 Total PAHs: Based on sum of 16 most common reported (WHO 98). HIL application should consider presence of carcinogenic PAHs (should meet BaP TEQ HIL) & napthalene (should meet relevant HSL)

#7 PCBs: HIL refers to non-dioxin like PCBs only. Where PCB source is known, or suspected at a site, a site-specific assessment of exposure to all PCBs (inc dioxin like PCBs) should be undertaken
#8 Derived soil HSL exceeds soil saturation concentraiton. To obtain F1 subtract the sum of BTEX concentrations from the C6 - C10 fraction.
#9 Derived soil HSL exceeds soil saturation concentraiton. To obtain F2 subtract naphthalene from the >C10-C16 fraction
#10 Derived soil HSL exceeds soil saturation concentraiton

#11 Aged values apply to arsenic contamination present in soil > 2 years. Refer Schedule B5c for < 2 years.
#12 Trigger Value taken for Chromium (III), Clay Content of 1%
#13 Trigger Value taken for pH 4.5
#14 Trigger Value taken for CEC 5
#15 Trigger Value taken for pH 4 and CEC 5
#16 ESLs are of low reliability.
#17 ESLs are of moderate reliability. To obtain F1 subtract the sum of BTEX concentrations from the C6 - C10

#18 ESLs are of moderate reliability. To obtain F2 subtract napthalene from the >C10 - C16 fraction.
#19 Separate management limits for BTEX & naphthalene are not available hence should not be subtracted from the relevant fractions to obtain F1 & F2

#20 Ecological Investigation Levels (EIL) for B(a)P in residential land uses (CRCCare 2017)

Environmental Standards
NEPM, NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil
NEPM, NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil

Table A - Soil
Project Number: 69329
Project Name: SSDA Stage 3, 960A Bourke Street, Zetland

	TPHs (NEPC 1999)					TRHs (NEPC 2013)							BTEXN						
	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum of Total)	C6-C10	C10-C16	C16-C34	C34-C40	C10-C40 (Sum of total)	F1 (C6-C10 minus BTEX)	F2 (C10-C16 less Naphthalene)	Benzene	Toluene	EthylBenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Total BTEX
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	20	20	50	50	50	20	50	100	100	50	20	50	0.1	0.1	0.1	0.1	0.2	0.3	
NEPM 2013 Table 1A(1) HILs Res B Soil																			
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay											50 | 90 | 150 | 290[#8]	280[#9]	0.7 | 1 | 2 | 3[#10]	480[#10]	#10			110 | 310[#10]	
>=0m, <1m											50[#8]	280[#9]	0.7[#10]	480[#10]	#10			110[#10]	
>=1m, <2m											90		1					310	
>=2m, <4m											150		2						
>=4m											290		3						
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand											45 | 70 | 110 | 200[#8]	110 | 240 | 440[#9]	0.5 | 0.5 | 0.5 | 0.5[#10]	160 | 220 | 310 | 540[#10]	55[#10]			40 | 60 | 95 | 170[#10]	
>=0m, <1m											45[#8]	110[#9]	0.5[#10]	160[#10]	55[#10]			40[#10]	
>=1m, <2m											70	240	0.5	220				60	
>=2m, <4m											110	440	0.5	310				95	
>=4m											200		0.5	540				170	
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																			
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil								300[#16]	2,800[#16]		180[#17]	120[#18]	50[#16]	85[#16]	70[#16]			105[#16]	
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil								1,300[#16]	5,600[#16]		180[#17]	120[#18]	65[#16]	105[#16]	125[#16]			45[#16]	
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil						700[#19]	1,000[#19]	2,500	10,000										
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil						800[#19]	1,000[#19]	3,500	10,000										

Location Code	Field ID	Matrix Description	Date	Lab Report Number																
BH10	BH10_4.3-4.5	Fill - SAND	May 2007	HLA 2007	<10	-	-	-	<250	-	-	-	-	-	-	-	<0.2	<0.5	<0.5	<0.1	<0.2	<0.3	-
BH10	BH10_7-7.5	Fill - CLAY	May 2007	HLA 2007	<10	-	-	-	<250	-	-	-	-	-	-	-	<0.2	<0.5	<0.5	<0.1	<0.2	<0.3	-
BH13	BH13_0.3-0.4	Fill - SAND	May 2007	HLA 2007	<10	-	-	-	<250	-	-	-	-	-	-	-	<0.2	<0.5	<0.5	<0.1	<0.2	<0.3	-
BH13	BH13_7.6-8	Fill - SAND	May 2007	HLA 2007	<10	-	-	-	<250	-	-	-	-	-	-	-	<0.2	<0.5	<0.5	<0.1	<0.2	<0.3	-
BH7	BH7_0.2-0.4	Fill - SAND	May 2007	HLA 2007	<10	-	-	-	430	-	-	-	-	-	-	-	<0.2	<0.5	<0.5	<0.1	<0.2	<0.3	-
BH7	BH7_8.8-9	Fill - SAND	May 2007	HLA 2007	<10	-	-	-	<250	-	-	-	-	-	-	-	<0.2	<0.5	<0.5	<0.1	<0.2	<0.3	-
BH8	BH8_0.1-0.2	Fill - GRAVEL	May 2007	HLA 2007	<10	-	-	-	<250	-	-	-	-	-	-	-	<0.2	<0.5	<0.5	<0.1	<0.2	<0.3	-
BH8	BH8_6-6.5	Fill - CLAY	May 2007	HLA 2007	<10	-	-	-	<250	-	-	-	-	-	-	-	<0.2	<0.5	<0.5	<0.1	<0.2	<0.3	-
BH14	BH14_2-2.1	Fill - SAND	07 Feb 2011	Coffey 2011	<20	-	-	-	305	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH14	BH14_5-5.1	Fill - CLAY	08 Feb 2011	Coffey 2011	<20	-	-	-	<120	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH14	BH14_8.2-8.3	Fill - SAND	08 Feb 2011	Coffey 2011	<20	-	-	-	<120	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH500	BH500_0.5	Fill - SAND	17 Feb 2022	865678	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH500	BH500_2.0	Fill - SAND	17 Feb 2022	865678	<20	<20	250	220	470	<20	<50	420	150	570	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH500	QA20220217_PG6	Fill - SAND	17 Feb 2022	865678	<20	<20	250	150	400	<20	<50	380	<100	380	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH500	QC20220217-PG6	Fill - SAND	17 Feb 2022	289593	<25	<50	180	120	290	<25	<50	280	<100	280	<25	<50	<0.2	<0.5	<1	<1	<2	<1	-
BH500	BH500_3.5	Fill - SAND	17 Feb 2022	865678	<20	<20	700	120	820	<20	<50	910	310	1,220	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH500	BH500_5.0	Fill - CLAY	17 Feb 2022	865678	<20	<20	85	72	157	<20	<50	140	<100	140	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH500	BH500_6.5	Fill - CLAY	17 Feb 2022	865678	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH500	BH500_8.0	Fill - CLAY	17 Feb 2022	865678	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH500	BH500_9.5	Fill - CLAY	17 Feb 2022	865678	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH500	BH500_11.0	Fill - CLAY	17 Feb 2022	865678	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH501	BH501_1.0	Fill - SAND	17 Feb 2022	865678	<20	<20	280	<50	280	<20	<50	320	110	430	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH501	BH501_2.5	Fill - SAND	17 Feb 2022	865678	<20	200	2,800	1,300	4,300	<20	280	3,700	520	4,500	<20	280	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH501	BH501_4.0	Fill - SAND	17 Feb 2022	865678	<20	21	370	270	661	<20	<50	630	160	790	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH501	QA20220217_PG5	Fill - SAND	17 Feb 2022	865678	<20	39	700	110	849	<20	67	850	210	1,127	<20	67	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH501	QC20220217-PG5	Fill - SAND	17 Feb 2022	289593	<25	<50	220	190	410	<25	<50	370	<100	370	<25	<50	<0.2	<0.5	<1	<1	<2	<1	-
BH501	BH501_5.5	Fill - CLAY	17 Feb 2022	865678	<20	<20	220	150	370	<20	<50	330	<100	330	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH501	BH501_7.0	Fill - SAND	17 Feb 2022	865678	<20	<20	76	<50	76	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH501	BH501_8.5	Fill - SAND	17 Feb 2022	865678	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH501	BH501_10.0	Fill - CLAY	17 Feb 2022	865678	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH501	BH501_11.5	Fill - CLAY	17 Feb 2022	865678	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH502	BH502_1.0	Fill - SAND	17 Feb 2022	865678	<20	<20	160	130	290	<20	<50	260	<100	260	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH502	BH502_2.0	Fill - SAND	17 Feb 2022	865678	<20	<20	480	58	538	<20	<50	490	<100	490	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH502	BH502_3.5	Fill - SAND	17 Feb 2022	865678	<20	<20	950	320	1,270	<20	<50	1,100	170	1,270	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH502	BH502_5.0	Fill - SAND	17 Feb 2022	865678	<20	20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH502	BH502_6.5	Fill - SAND	17 Feb 2022	865678	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH502	BH502_8.0	Fill - CLAY	17 Feb 2022	865678	<20	<20	74	<50	74	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH502	BH502_9.5	Fill - CLAY	17 Feb 2022	865678	<20	<20	170	80	250	<20	<50	230	<100	230	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH502	BH502_11.0	Fill - CLAY	17 Feb 2022	865678	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH502	BH502_12.5	Fill - CLAY	17 Feb 2022	865678	<20	<20	110	<50	110	<20	<50	120	<100	120	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH503	BH503_0.5	Fill - SAND	17 Feb 2022	865678	<20	<20	81	110	191	<20	<50	160	110	270	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH503	BH503_2.0	Fill - SAND	17 Feb 2022	865678	<20	<20	490	96	586	<20	<50	640	180	820	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH503	BH503_3.5	Fill - SAND	17 Feb 2022	865678	<20	<20	300	250	550	<20	<50	480	160	640	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH503	BH503_5.0	Fill - SAND	17 Feb 2022	865678	<20	30	580	370	980	<20	<50	850	180	1,030	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH503	BH503_6.5	Fill - SAND	17 Feb 2022	865678	<20	<20	400	57	457	<20	<50	480	130	610	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH503	BH503_8.0	Fill - CLAY	17 Feb 2022	865678	<20	<20	73	60	133	<20	<50	110	<100	110	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH503	BH503_9.5	Fill - CLAY	17 Feb 2022	865678	<20	<20	180	<50	180	<20	<50	200	<100	200	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH503	BH503_11.0	Fill - CLAY	17 Feb 2022	865678	<20	<20	59	<50	59	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH503	BH503_12.5	Fill - CLAY	17 Feb 2022	865678	<20	<20	120	<50	120	<20	<50	140	<100	140	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH504	BH504_0.5	Fill - SAND	17 Feb 2022	865678	<20	<40	160	300	460	<20	<100	360	340	700	<20	<100	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH504	QA20220217_PG2	Fill - SAND	17 Feb 2022	865678	<20	<20	130	120	250	<20	<50	210	<100	210	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH504	QC20220217-PG2	Fill - SAND	17 Feb 2022	289593	<25	<50	<100	<100	<50	<25	<50	130	<100	130	<25	<50	<0.2	<0.5	<1	<1	<2	<1	-
BH504	BH504_2.0	Fill - SAND	17 Feb 2022	865678	<20	<40	1,100	220	1,320	<20	<100	1,400	360	1,760	<20	<100	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH504	BH504_3.5	Fill - SAND	17 Feb 2022	865678	<20	<40	300	300	600	<20	<100	500	270	770	<20	<100	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH504	QA20220217_PG3	Fill - SAND	17 Feb 2022	865678	<20	<20	380	310	690	<20	<50	600	210	810	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH504	QC20220217-PG3	Fill - SAND	17 Feb 2022	289593	<25	<50	320	280	600	<25	<50	520	170	690	<25	<50	<0.2	<0.5	<1	<1	<2	<1	-
BH504	BH504_4.5	Fill - SAND	17 Feb 2022	865678	<20	<40	350	<100	350	<20	<100	480	<200	480	<20	<100	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH504	BH504_6.0	Fill - SAND	17 Feb 2022	865678	<20	<40	500	390	890	<20	<100	790	270	1,060	<20	<100	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH504	BH504_7.5	Fill - SAND	17 Feb 2022	865678	<20	<20	85	<50	85	<20	<50	130	<100	130	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH504	BH504_9.0	Fill - CLAY	17 Feb 2022	865678	<20	<40	1,700	180	1,880	<20	<100	2,000	<200	2,000	<20	<100	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH504	BH504_10.5	Fill - CLAY	17 Feb 2022	865678	<20	<20	170	98	268	<20	<50	270	<100	270	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH504	BH504_12.0	Fill - CLAY	17 Feb 2022	865678	<20	<20	110	<50	110	<20	<50	170	<100	170	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH505	BH505_1.5	Fill - SAND	17 Feb 2022	865678	<20	<20	220	130	350	<20	<50	330	<100	330	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH505	BH505_3.0	Fill - SAND	17 Feb 2022	865678	<20	<20	180	<50	180	<20	<50	250	<100	250	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH505	QA20220217_PG4	Fill - SAND	17 Feb 2022	865678	<20	<20	270	<50	270	<20	<50	330	<100	330	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH505	QC20220217-PG4	Fill - SAND	17 Feb 2022	289593	<25	<50	150	140	290	<25	<50	270	<100	270	<25	<50	<0.2	<0.5	<1	<1	<2	<1	-
BH505	BH505_4.5	Fill - SAND	17 Feb 2022	865678	<20	<20	200	110	310	<20	<50	300	<100	300	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH505	BH505_6.0	Fill - SAND	17 Feb 2022	865678	<20	<20	210	<50	210	<20	<50	310	<100	310	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH505	BH505_7.5	Fill - SAND	17 Feb 2022	865678	<20	<20	170	120	290	<20	<50	280	<100	280	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH505	BH505_9.0	Fill - SAND	17 Feb 2022	865678	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH505	BH505_10.5	Fill - SAND	17 Feb 2022	865678	<20	<40	280	<100	280	<20	<100	370	<200	370	<20	<100	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH505	BH505_11.5	Fill - SAND	17 Feb 2022	865678	<20	<40	350	240	590	<20	<100	510	<200	510	<20	<100	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH506	BH506_1.0	Fill - SAND	17 Feb 2022	865678	<20	<40	180	<100	180	<20	<100	250	<200	250	<20	<100	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-

Table A - Soil
Project Number: 69329
Project Name: SSDA Stage 3, 960A Bourke Street, Zetland

JBS&G

	TPHs (NEPC 1999)					TRHs (NEPC 2013)							BTEXN						
	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum of Total)	C6-C10	C10-C16	C16-C34	C34-C40	C10-C40 (Sum of total)	F1 (C6-C10 minus BTEX)	F2 (C10-C16 less Naphthalene)	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Total BTEX
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	20	20	50	50	50	20	50	100	100	50	20	50	0.1	0.1	0.1	0.1	0.2	0.3	
NEPM 2013 Table 1A(1) HILs Res B Soil																			
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay											50 | 90 | 150 | 290[#8]	280[#9]	0.7 | 1 | 2 | 3[#10]	480[#10]	#10			110 | 310[#10]	
>=0m, <1m											50[#8]	280[#9]	0.7[#10]	480[#10]	#10			110[#10]	
>=1m, <2m											90		1					310	
>=2m, <4m											150		2						
>=4m											290		3						
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand											45 | 70 | 110 | 200[#8]	110 | 240 | 440[#9]	0.5 | 0.5 | 0.5 | 0.5[#10]	160 | 220 | 310 | 540[#10]	55[#10]			40 | 60 | 95 | 170[#10]	
>=0m, <1m											45[#8]	110[#9]	0.5[#10]	160[#10]	55[#10]			40[#10]	
>=1m, <2m											70	240	0.5	220				60	
>=2m, <4m											110	440	0.5	310				95	
>=4m											200		0.5	540				170	
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																			
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil								300[#16]	2,800[#16]		180[#17]	120[#18]	50[#16]	85[#16]	70[#16]			105[#16]	
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil								1,300[#16]	5,600[#16]		180[#17]	120[#18]	65[#16]	105[#16]	125[#16]			45[#16]	
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil						700[#19]	1,000[#19]	2,500	10,000										
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil						800[#19]	1,000[#19]	3,500	10,000										

Location Code	Field ID	Matrix Description	Date	Lab Report Number																
BH506	BH506_2.5	Fill - SAND	17 Feb 2022	865678	<20	<40	200	180	380	<20	<100	330	<200	330	<20	<100	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH506	BH506_4.0	Fill - SAND	17 Feb 2022	865678	<20	<40	240	<100	240	<20	<100	310	<200	310	<20	<100	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH506	BH506_5.0	Fill - SAND	17 Feb 2022	865678	<20	<20	90	59	149	<20	<50	140	<100	140	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH506	BH506_6.5	Fill - SAND	17 Feb 2022	865678	<20	<20	160	<50	160	<20	<50	220	<100	220	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH506	BH506_8.0	Fill - SAND	17 Feb 2022	865678	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH506	BH506_9.0	Fill - SAND	17 Feb 2022	865678	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH507	BH507_0.5	Fill - SAND	17 Feb 2022	865678	<20	<200	<500	760	760	<20	<500	<1,000	1,100	1,100	<20	<500	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH507	BH507_1.5	Fill - SAND	17 Feb 2022	865678	<20	45	110	<50	155	<20	<50	190	<100	190	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH507	QA20220217_PG1	Fill - SAND	17 Feb 2022	865678	<20	<20	260	<50	260	<20	<50	360	170	530	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH507	QC20220217-PG1	Fill - SAND	17 Feb 2022	289593	<25	<50	120	160	280	<25	<50	250	120	360	<25	<50	<0.2	<0.5	<1	<1	<2	<1	-
BH507	BH507_3.0	Fill - SAND	17 Feb 2022	865678	<20	<20	110	97	207	<20	<50	190	<100	190	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH507	BH507_4.5	Fill - SAND	17 Feb 2022	865678	<20	<20	220	<50	220	<20	<50	320	120	440	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH507	BH507_6.0	Fill - SAND	17 Feb 2022	865678	<20	<20	120	130	250	<20	<50	240	110	350	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH507	BH507_7.5	Fill - SAND	17 Feb 2022	865678	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH507	BH507_9.0	Fill - SAND	17 Feb 2022	865678	<20	<20	400	170	570	<20	<50	520	<100	520	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH507	BH507_10.5	Fill - SAND	17 Feb 2022	865678	<20	<20	170	80	250	<20	<50	230	<100	230	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH507	BH507_12.0	Fill - SAND	17 Feb 2022	865678	<20	<20	190	87	277	<20	<50	250	<100	250	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH508	BH508_0.5	Fill - SAND	18 Feb 2022	866070	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH508	BH508_2.0	Fill - GRAVEL	18 Feb 2022	866070	<20	<20	110	<50	110	<20	<50	150	<100	150	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH508	BH508_3.5	Fill - SAND	18 Feb 2022	866070	<20	110	400	240	750	<20	<100	560	<200	560	<20	<100	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH508	BH508_4.5	Fill - SAND	18 Feb 2022	866070	<20	<20	250	190	440	<20	<50	390	110	500	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH508	BH508_6.0	Fill - SAND	18 Feb 2022	866070	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH508	BH508_7.0	Fill - SAND	18 Feb 2022	866070	<20	<20	94	<50	94	<20	<50	110	<100	110	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH509	BH509_0.5	Fill - SAND	18 Feb 2022	866070	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH509	BH509_2.0	Fill - SAND	18 Feb 2022	866070	<20	<20	170	<50	170	<20	<50	220	<100	220	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH509	BH509_2.5	Fill - SAND	18 Feb 2022	866070	<20	<20	610	590	1,200	<20	<50	1,100	320	1,420	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH509	QA20220218PG3	Fill - SAND	18 Feb 2022	866070	<20	<20	190	160	350	<20	<50	330	100	430	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH509	QC20220218-PG3	Fill - SAND	18 Feb 2022	289684	<25	<50	150	180	320	<25	<50	290	<100	290	<25	<50	<0.2	<0.5	<1	<1	<2	<1	-
BH509	BH509_3.5	Fill - SAND	18 Feb 2022	866070	<20	<20	560	81	641	<20	<50	700	210	910	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH509	BH509_5.0	Fill - SAND	18 Feb 2022	866070	<20	52	2,600	1,200	3,852	<20	180	3,400	660	4,240	<20	180	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH509	BH509_6.5	Fill - SAND	18 Feb 2022	866070	<20	<20	180	<50	180	<20	<50	220	<100	220	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH509	BH509_7.5	Fill - SAND	18 Feb 2022	866070	<20	<20	58	67	125	<20	<50	100	<100	100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH510	BH510_1.0	Fill - SAND	18 Feb 2022	866070	<20	<20	140	<50	140	<20	<50	190	<100	190	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH510	BH510_2.5	Fill - SAND	18 Feb 2022	866070	<20	<20	170	120	290	<20	<50	250	<100	250	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH510	BH510_4.0	Fill - CLAY	18 Feb 2022	866070	<20	<20	210	<50	210	<20	<50	240	<100	240	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH510	BH510_5.5	Fill - SAND	18 Feb 2022	866070	<20	<20	260	180	440	<20	<50	390	100	490	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH510	BH510_7.0	Fill - SAND	18 Feb 2022	866070	<20	<20	350	250	600	<20	<50	540	140	680	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH510	BH510_8.0	Fill - SAND	18 Feb 2022	866070	<20	<20	180	130	310	<20	<50	270	<100	270	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH511	BH511_0.5	Fill - SAND	18 Feb 2022	866070	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH511	BH511_2.0	Fill - SAND	18 Feb 2022	866070	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH511	BH511_3.5	Fill - SAND	18 Feb 2022	866070	<20	<20	75	52	127	<20	<50	110	<100	110	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH511	BH511_5.0	Fill - SAND	18 Feb 2022	866070	<20	<20	88	66	154	<20	<50	130	<100	130	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH511	BH511_6.5	Fill - SAND	18 Feb 2022	866070	<20	<20	80	64	144	<20	<50	130	<100	130	<20	<50	0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH511	BH511_8.0	Fill - SAND	18 Feb 2022	866070	<20	<20	90	56	146	<20	<50	130	<100	130	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH512	BH512_0.5	Fill - SAND	18 Feb 2022	866070	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH512	BH512_2.0	Fill - CLAY	18 Feb 2022	866070	<20	<20	64	<50	64	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH512	QA20220218PG1	Fill - CLAY	18 Feb 2022	866070	<20	<20	58	<50	58	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH512	QC20220218-PG1	Fill - CLAY	18 Feb 2022	289684	<25	<50	<100	<100	<50	<25	<50	<100	<100	<50	<25	<50	<0.2	<0.5	<1	<1	<2	<1	-
BH512	BH512_2.5	Fill - CLAY	18 Feb 2022	866070	<20	<20	52	<50	52	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BH512	BH512_3.5	Fill - GRAVEL	18 Feb 2022	866070	<200	460	9,300	3,200	12,960	<200	1,400	11,000	1,600	14,000	<200	1,370	<1	<1	<1	<1	<2	<3	-
BH512	BH512_4.5	Fill - GRAVEL	18 Feb 2022	866070	<200	500	9,200	3,200	12,900	<200	1,300	11,000	1,700	14,000	<200	1,238	<1	<1	<1	<1	<2	<3	-
BH512	BH512_5.5	Fill - GRAVEL	18 Feb 2022	866070	<200	<200	3,600	1,400	5,000	<200	<500	4,400	<1,000	4,400	<200	<500	<1	<1	<1	<1	<2	<3	-
BHP3	BHP3_0.5-0.6	Fill_SAND	01 Feb 2011	Coffey 2011	<20	-	-	-	86	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BHP3	BHP3_2-2.1	Fill_CLAY	01 Feb 2011	Coffey 2011	<20	-	-	-	<120	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
BHP3	BHP3_5.5-5.6	SAND	01 Feb 2011	Coffey 2011	<20	-	-	-	<120	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
FC053	FC053_0-0.1	Fill_SAND	JBS&G 2014	403832	<20	<20	71	83	150	<20	<50	150	<100	225	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3
FC053	FC053_0-0.1	Fill_SAND	JBS&G 2014	404625	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC053	FC053_2-2.1	Fill_SAND	JBS&G 2014	403832	<20	<20	680	320	1,000	<20	<50	930	180	1,135	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3
FC053	FC053_2-2.1	Fill_SAND	JBS&G 2014	404625	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC054	FC054_0.5	Fill_SAND	JBS&G 2014	403832	<20	<20	<50	<50	<50	<20	<50	<100	<100	125	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3
FC054	FC054_1-1.1	Fill_SAND	JBS&G 2014	403832	<20	<20	67	<50	67	<20	<50	110	<100	185	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3
FC055	FC055_0-0.1	Fill_SAND	JBS&G 2014	403832	<20	<20	180	230	410	<20	<50	380	140	545	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3
FC055	FC055_0-0.1	Fill_SAND	JBS&G 2014	404625	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC055	QC01	Fill_SAND	JBS&G 2014	403832	<20	<20	580	440	1,000	<20	<50	970	220	1,215	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3
FC055	QC01	Fill_SAND	JBS&G 2014	404625	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC055	QC01-A	Fill_SAND	JBS&G 2014	102718	<25	<50	<100	190	265	<25	<50	240	120	385	<25	<50	<0.2	<0.5	<1	<1	<2	1.5	2.35
FC055	FC055_1-1.1	Fill_SAND	JBS&G 2014	403832	<20	20	3,000	1,900	4,900	<20	82	4,600	900	5,582	<20	82	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3
FC055	FC055_1-1.1	Fill_SAND	JBS&G 2014	404625	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC055	FC055_4-4.1	Fill_SAND	JBS&G 2014	403832	<20	<20	760	560	1,300	<20	<50	1,200	270	1,495	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3
FC055	FC055_4-4.1	Fill_SAND	JBS&G 2014	404625	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC056	FC056_2-2.1	Fill_SAND	JBS&G 2014	403832	<20	<20	<50	<50	<50	<20	<50	<100	<100	125	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3
FC056	FC056_3-3.1	Fill_SAND	JBS&G 2014	403832	<20	<20	<50	<50	<50	<20	<50	<100	<100	125	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3
FC057	FC057_0-0.1	Fill_SAND	JBS&G 2014	403941	<20	<20	330	280	610	<20	<50	670	120	815	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3
FC057	FC057_0-0.1	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table A - Soil
Project Number: 69329
Project Name: SSDA Stage 3, 960A Bourke Street, Zetland

	TPHs (NEPC 1999)					TRHs (NEPC 2013)							BTEXN						
	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum of Total)	C6-C10	C10-C16	C16-C34	C34-C40	C10-C40 (Sum of total)	F1 (C6-C10 minus BTEX)	F2 (C10-C16 less Naphthalene)	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Total BTEX
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	20	20	50	50	50	20	50	100	100	50	20	50	0.1	0.1	0.1	0.1	0.2	0.3	
NEPM 2013 Table 1A(1) HILs Res B Soil																			
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay											50 | 90 | 150 | 290[#8]	280[#9]	0.7 | 1 | 2 | 3[#10]	480[#10]	#10			110 | 310[#10]	
>=0m, <1m											50[#8]	280[#9]	0.7[#10]	480[#10]	#10			110[#10]	
>=1m, <2m											90		1					310	
>=2m, <4m											150		2						
>=4m											290		3						
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand											45 | 70 | 110 | 200[#8]	110 | 240 | 440[#9]	0.5 | 0.5 | 0.5 | 0.5[#10]	160 | 220 | 310 | 540[#10]	55[#10]			40 | 60 | 95 | 170[#10]	
>=0m, <1m											45[#8]	110[#9]	0.5[#10]	160[#10]	55[#10]			40[#10]	
>=1m, <2m											70	240	0.5	220				60	
>=2m, <4m											110	440	0.5	310				95	
>=4m											200		0.5	540				170	
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																			
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil								300[#16]	2,800[#16]		180[#17]	120[#18]	50[#16]	85[#16]	70[#16]			105[#16]	
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil								1,300[#16]	5,600[#16]		180[#17]	120[#18]	65[#16]	105[#16]	125[#16]			45[#16]	
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil						700[#19]	1,000[#19]	2,500	10,000										
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil						800[#19]	1,000[#19]	3,500	10,000										

Location Code	Field ID	Matrix Description	Date	Lab Report Number																
FC057	FC057_2-2.1	Fill_SAND	JBS&G 2014	403941	<20	<20	81	140	220	<20	<50	220	<100	295	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3
FC058	FC058_0.5-0.6	Fill_SAND	JBS&G 2014	403941	<20	<20	77	95	170	<20	<50	180	<100	255	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3
FC058	FC058_0.5-0.6	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC058	QC02	Fill_SAND	JBS&G 2014	403941	<20	<20	<50	61	61	<20	<50	120	<100	195	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3
FC058	QC02	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC058	QC02-A	Fill_SAND	JBS&G 2014	102801	<25	<50	190	150	365	<25	<50	280	<100	355	<25	<50	<0.2	<0.5	<1	<1	<2	1.5	2.35
FC058	FC058_5-5.1	Fill_SAND	JBS&G 2014	403941	<20	<20	79	100	180	<20	<50	190	<100	265	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3
FC058	FC058_5-5.1	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC059	FC059_0.5-0.6	Fill_SAND	JBS&G 2014	403941	<20	<20	160	130	290	<20	<50	320	<100	395	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3
FC059	FC059_0.5-0.6	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC059	FC059_1-1.1	Fill_SAND	JBS&G 2014	403941	<20	<20	460	340	800	<20	<50	910	130	1,065	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3
FC059	FC059_1-1.1	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC060	FC060_1-1.1	Fill_SAND	JBS&G 2014	403941	<20	<20	56	82	140	<20	<50	150	<100	225	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3
FC060	FC060_2-2.1	Fill_SAND	JBS&G 2014	403941	<20	<20	600	750	1,400	<20	<50	1,500	400	1,925	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3
FC060	FC060_2-2.1	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC060	FC060_3-3.1	Fill_SAND	JBS&G 2014	403941	<20	<20	300	420	720	<20	<50	780	170	975	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3
FC060	FC060_3-3.1	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC061	FC061_1-1.1	Fill_SAND	JBS&G 2014	403941	<20	<20	150	160	310	<20	<50	340	<100	415	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3
FC061	FC061_1-1.1	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC061	FC061_3-3.1	Fill_SAND	JBS&G 2014	403941	<20	<20	110	120	230	<20	<50	240	<100	315	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3
FC061	FC061_3-3.1	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC062	FC062_0.1-0.2	Fill_SAND	JBS&G 2014	405422	<20	<20	<50	<50	<50	<20	<50	<100	<100	125	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3
FC062	FC062_0.1-0.2	Fill_SAND	JBS&G 2014	406078	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC062	QC05	Fill_SAND	JBS&G 2014	405422	<20	<20	<50	<50	<50	<20	<50	<100	<100	125	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3
FC062	QC05-A	Fill_SAND	JBS&G 2014	103460	<25	<50	<100	<100	125	<25	<50	140	<100	215	<25	<50	<0.2	<0.5	<1	<1	<2	1.5	2.35
FC062	FC062_3.8-4	Fill_CLAY	JBS&G 2014	405422	<20	<20	<50	<50	<50	<20	<50	<100	<100	125	<20	<50	-	-	-	-	-	-	-
FC063	FC063_1.6-1.8	Fill_SAND	JBS&G 2014	405422	<20	<20	260	370	630	<20	<50	510	590	1,125	<20	<50	-	-	-	-	-	-	-
FC063	FC063_1.6-1.8	Fill_SAND	JBS&G 2014	406078	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC063	FC063_3.8-4	Fill_SAND	JBS&G 2014	405422	<20	<20	50	50	100	<20	<50	<100	<100	125	<20	<50	-	-	-	-	-	-	-
FC064	FC064_0.1-0.2	Fill_SAND	JBS&G 2014	405524	<20	<20	<50	<50	<50	<20	<50	<100	<100	125	<20	<50	-	-	-	-	-	-	-
FC064	FC064_0.1-0.2	Fill_SAND	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC064	FC064_0.5-0.7	Fill_GRAVEL	JBS&G 2014	405524	<20	<20	<50	<50	<50	<20	<50	<100	<100	125	<20	<50	-	-	-	-	-	-	-
FC064	FC064_3.1-3.3	Fill_SAND	JBS&G 2014	405524	<20	<20	53	100	150	<20	<50	140	<100	215	<20	<50	-	-	-	-	-	-	-
FC064	FC064_3.1-3.3	Fill_SAND	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC064	FC064_4.7-4.9	Fill_CLAY	JBS&G 2014	405524	<20	<20	<50	<50	<50	<20	<50	<100	<100	125	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3
FC065	FC065_0.1-0.2	Fill_SAND	JBS&G 2014	405524	<20	<20	53	63	120	<20	<50	110	<100	185	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3
FC065	FC065_0.5-0.7	Fill_CLAY	JBS&G 2014	405524	<20	<20	<50	<50	<50	<20	<50	<100	<100	125	<20	<50	-	-	-	-	-	-	-
FC065	FC065_0.5-0.7	Fill_CLAY	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC065	FC065_1-1.2	Fill_CLAY	JBS&G 2014	405524	<20	<20	2,000	1,200	3,200	<20	63	3,100	620	3,783	<20	63	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3
FC065	FC065_1-1.2	Fill_CLAY	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC065	FC065_2.3-2.5	Fill_CLAY	JBS&G 2014	405524	<20	<20	<50	<50	<50	<20	<50	<100	<100	125	<20	<50	-	-	-	-	-	-	-
FC065	FC065_2.3-2.5	Fill_CLAY	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC065	FC065_3-3.2	Fill_SAND	JBS&G 2014	405524	<20	<20	<50	<50	<50	<20	<50	<100	<100	125	<20	<50	-	-	-	-	-	-	-
FC066	FC066_0.5-0.7	Fill_SAND	JBS&G 2014	405524	<20	<20	58	<50	58	<20	<50	<100	<100	125	<20	<50	-	-	-	-	-	-	-
FC066	FC066_0.5-0.7	Fill_SAND	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC066	FC066_1.5-1.7	Fill_SAND	JBS&G 2014	405524	<20	<20	300	140	440	<20	<50	400	110	535	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3
FC066	FC066_1.5-1.7	Fill_SAND	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC066	FC066_2.5-2.7	Fill_SAND	JBS&G 2014	405524	<20	<20	<50	<50	<50	<20	<50	<100	<100	125	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3
FC066	FC066_2.5-2.7	Fill_SAND	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC066	FC066_3.1-3.3	Fill_SAND	JBS&G 2014	405524	<20	<20	<50	<50	<50	<20	<50	<100	<100	125	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3
FC067	FC067_0.5-0.6	Fill_SAND	JBS&G 2014	405524	<20	<20	61	<50	61	<20	<50	<100	<100	125	<20	<50	-	-	-	-	-	-	-
FC067	FC067_0.5-0.6	Fill_SAND	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC067	FC067_0.9-1.1	Fill_GRAVEL	JBS&G 2014	405524	<20	<20	<50	<50	<50	<20	<50	<100	<100	125	<20	<50	-	-	-	-	-	-	-
FC067	FC067_3.1-3.3	Fill_SAND	JBS&G 2014	405524	<20	<20	<50	<50	<50	<20	<50	<100	<100	125	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3
FC068	FC068_0.1-0.2	Fill_SAND	JBS&G 2014	405524	<20	<20	69	75	140	<20	<50	120	<100	195	<20	<50	-	-	-	-	-	-	-
FC068	FC068_0.1-0.2	Fill_SAND	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC068	FC068_1.1-1.3	Fill_CLAY	JBS&G 2014	405524	<20	<20	55	<50	55	<20	<50	<100	<100	125	<20	<50	-	-	-	-	-	-	-
FC068	FC068_1.1-1.3	Fill_CLAY	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC068	FC068_4.8-5	Fill_CLAY	JBS&G 2014	405524	<20	<20	370	480	850	<20	<50	790	340	1,155	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3
FC068	FC068_4.8-5	Fill_CLAY	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC069	FC069_6-6.1	Fill_SAND	JBS&G 2014	405819	<20	<20	640	390	1,000	<20	<50	1,000	190	1,215	<20	<50	-	-	-	-	-	-	-
FC069	FC069_6-6.1	Fill_SAND	JBS&G 2014	406432	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC069	FC069_8-8.1	SAND	JBS&G 2014	405819	<20	<20	99	92	190	<20	<50	180	<100	255	<20	<50	-	-	-	-	-	-	-
FC069	FC069_8-8.1	SAND	JBS&G 2014	406432	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC070	FC070_0.1-0.2	Fill_SAND	JBS&G 2014	405454	<20	<20	63	58	120	<20	<50	110	<100	185	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3
FC070	FC070_0.1-0.2	Fill_SAND	JBS&G 2014	406249	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC070	FC070_0.5-0.6	Fill_SAND	JBS&G 2014	405454	<20	<20	86	91	180	<20	<50	160	<100	235	<20	<50	-	-	-	-	-	-	-
FC070	FC070_0.5-0.6	Fill_SAND	JBS&G 2014	406249	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC070	FC070_6-6.1	Fill_SAND	JBS&G 2014	405819	<20	<20	<50	<50	<50	<20	<50	<100	<100	125	<20	<50	-	-	-	-	-	-	-
FC070	QC18	Fill_SAND	JBS&G 2014	405819	<20	<20	<50	<50	<50	<20	<50	<100	<100	125	<20	<50	-	-	-	-	-	-	-
FC070	QC18-A	Fill_SAND	JBS&G 2014	103629	<25	<50	<100	<100	125	<25	<50	<100	<100	125	-	-	-	-	-	-	-	-	-
FC071	FC071_0.5-0.8	Fill_SAND	JBS&G 2014	405454	<20	<20	290	320	610	<20	<50	560	200	785	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3
FC071	FC071_0.5-0.8	Fill_SAND	JBS&G 2014	406249	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC071	FC071_2.8-3	Fill_SAND	JBS&G 2014	405454	<20	<20	<50	<50	<50	<20	<50	<100	<100	125	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3

Table A - Soil
Project Number: 69329
Project Name: SSDA Stage 3, 960A Bourke Street, Zetland

	TPHs (NEPC 1999)					TRHs (NEPC 2013)							BTEXN						
	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum of Total)	C6-C10	C10-C16	C16-C34	C34-C40	C10-C40 (Sum of total)	F1 (C6-C10 minus BTEX)	F2 (C10-C16 less Naphthalene)	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Total BTEX
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	20	20	50	50	50	20	50	100	100	50	20	50	0.1	0.1	0.1	0.1	0.2	0.3	
NEPM 2013 Table 1A(1) HILs Res B Soil																			
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay											50 | 90 | 150 | 290[#8]	280[#9]	0.7 | 1 | 2 | 3[#10]	480[#10]	#10			110 | 310[#10]	
>=0m, <1m											50[#8]	280[#9]	0.7[#10]	480[#10]	#10			110[#10]	
>=1m, <2m											90		1					310	
>=2m, <4m											150		2						
>=4m											290		3						
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand											45 | 70 | 110 | 200[#8]	110 | 240 | 440[#9]	0.5 | 0.5 | 0.5 | 0.5[#10]	160 | 220 | 310 | 540[#10]	55[#10]			40 | 60 | 95 | 170[#10]	
>=0m, <1m											45[#8]	110[#9]	0.5[#10]	160[#10]	55[#10]			40[#10]	
>=1m, <2m											70	240	0.5	220				60	
>=2m, <4m											110	440	0.5	310				95	
>=4m											200		0.5	540				170	
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																			
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil								300[#16]	2,800[#16]		180[#17]	120[#18]	50[#16]	85[#16]	70[#16]			105[#16]	
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil								1,300[#16]	5,600[#16]		180[#17]	120[#18]	65[#16]	105[#16]	125[#16]			45[#16]	
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil						700[#19]	1,000[#19]	2,500	10,000										
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil						800[#19]	1,000[#19]	3,500	10,000										

Location Code	Field ID	Matrix Description	Date	Lab Report Number																	
FC071	FC071_2.8-3	Fill_SAND	JBS&G 2014	406249	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC071	FC071_4.8-5	Fill_SAND	JBS&G 2014	405454	<20	<20	170	180	350	<20	<50	320	110	455	<20	<50	-	-	-	-	-	-	-
FC071	FC071_4.8-5	Fill_SAND	JBS&G 2014	406249	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC071	FC071_6-6.1	Fill_SAND	JBS&G 2014	405819	<20	<20	100	82	180	<20	<50	180	<100	255	<20	<50	-	-	-	-	-	-	-
FC071	FC071_6-6.1	Fill_SAND	JBS&G 2014	406432	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC071	FC071_8-8.1	Fill_SAND	JBS&G 2014	405819	<20	<20	<50	<50	<50	<20	<50	<100	<100	125	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3
FC072	FC072_0.4-0.6	Fill_SAND	JBS&G 2014	405454	<20	<20	<50	<50	<50	<20	<50	<100	<100	125	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3
FC072	FC072_1.5-0.7	Fill_CLAY	JBS&G 2014	405454	<20	<20	<50	<50	<50	<20	<50	<100	<100	125	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3
FC072	FC072_2.9-3.1	Fill_CLAY	JBS&G 2014	405454	<20	<20	<50	<50	<50	<20	<50	<100	<100	125	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3
FC072	FC072_6-6.1	Fill_CLAY	JBS&G 2014	405819	<20	<20	<50	67	67	<20	<50	110	<100	185	<20	<50	-	-	-	-	-	-	-
FC072	FC072_6-6.1	Fill_CLAY	JBS&G 2014	406432	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I3	I3_3.9-4	Fill - SAND	04 Feb 2011	Coffey 2011	<20	-	-	-	390	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
I3	I3_5.4-5.5	Fill - CLAY	04 Feb 2011	Coffey 2011	<20	-	-	-	97	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
R31	R31_0.5-0.6	Fill - SAND	04 Feb 2011	Coffey 2011	<20	-	-	-	204	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
R32	R32_0.5-0.6	Fill - SAND	03 Feb 2011	Coffey 2011	<20	-	-	-	380	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
R32	R32_2-2.1	Fill - SAND	03 Feb 2011	Coffey 2011	<20	-	-	-	440	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-
R33	R33_1.5-1.6	Fill - SAND	04 Feb 2011	Coffey 2011	<20	-	-	-	<120	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-

Comments

#1 Arsenic: HIL assumes 70% oral bioavailability. Site-specific bioavailability maybe important and should be considered where appropriate (refer Shedule B7).
#2 Trigger Value adopted from Chromium (VI)
#3 Lead: HILs A,B,C based on blood lead models (IEUBK & HIL D on adult lead model for where 50% bioavailability considered. Site-specific bioavailability should be considered where appropriate.

#4 Elemental mercury: HIL does not address elemental mercury. a site specific assessment should be considered if elemental mercury is present, or suspected to be present.

#5 Carcinogenic PAHs: HIL based on 8 carc. PAHs & their TEFs (rel to BaP ref Schedule 7) BaP TEQ calc by multiplying the conc of each carc. PAH in sample by its BaP TEF (ref Table 1A(1)) & summing

#6 Total PAHs: Based on sum of 16 most common reported (WHO 98). HIL application should consider presence of carcinogenic PAHs (should meet BaP TEQ HIL) & napthalene (should meet relevant HSL)

#7 PCBs: HIL refers to non-dioxin like PCBs only. Where PCB source is known, or suspected at a site, a site-specific assessment of exposure to all PCBs (inc dioxin like PCBs) should be undertaken
#8 Derived soil HSL exceeds soil saturation concentraiton. To obtain F1 subtract the sum of BTEX concentrations from the C6 - C10 fraction.
#9 Derived soil HSL exceeds soil saturation concentraiton. To obtain F2 subtract naphthalene from the >C10-C16 fraction
#10 Derived soil HSL exceeds soil saturation concentraiton

#11 Aged values apply to arsenic contamination present in soil > 2 years. Refer Schedule B5c for < 2 years.
#12 Trigger Value taken for Chromium (III), Clay Content of 1%
#13 Trigger Value taken for pH 4.5
#14 Trigger Value taken for CEC 5
#15 Trigger Value taken for pH 4 and CEC 5
#16 ESLs are of low reliability.
#17 ESLs are of moderate reliability. To obtain F1 subtract the sum of BTEX concentrations from the C6 - C10

#18 ESLs are of moderate reliability. To obtain F2 subtract napthalene from the >C10 - C16 fraction.
#19 Separate management limits for BTEX & naphthalene are not available hence should not be subtracted from the relevant fractions to obtain F1 & F2

#20 Ecological Investigation Levels (EIL) for B(a)P in residential land uses (CRCCare 2017)

Environmental Standards
NEPM, NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil
NEPM, NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil

Table A - Soil
Project Number: 69329
Project Name: SSDA Stage 3, 960A Bourke Street, Zetland

	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b+j)fluoranthene	Benzo(b+j+k)fluoranthene	Benzo(b+k)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Naphthalene - PAH	Phenanthrene	Pyrene	Carcinogenic PAHs as B(a)P TEQ	PAHs (Sum of total)
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.1	0.1	0.1	0.1	0.05	0.5	0.2		0.1	0.5	0.1	0.1	0.1	0.1	0.1	0.1	0.5	0.1	0.1		0.05
NEPM 2013 Table 1A(1) HILs Res B Soil																				4[#5]	400[#6]
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay																5[#10]	5[#10]				
>=0m, <1m																5[#10]	5[#10]				
>=1m, <2m																					
>=2m, <4m																					
>=4m																					
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand																3[#10]	3[#10]				
>=0m, <1m																3[#10]	3[#10]				
>=1m, <2m																					
>=2m, <4m																					
>=4m																					
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																170	170				
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil					33 [#20]																
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil					33 [#20]																
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																					
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																					

Location Code	Field ID	Matrix Description	Date	Lab Report Number																				
BH10	BH10_4.3-4.5	Fill - SAND	May 2007	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH10	BH10_7-7.5	Fill - CLAY	May 2007	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH13	BH13_0.3-0.4	Fill - SAND	May 2007	HLA 2007	-	-	-	-	-	-	<0.5	-	-	-	-	-	-	-	-	-	-	-	0.5	<0.5
BH13	BH13_7.6-8	Fill - SAND	May 2007	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH7	BH7_0.2-0.4	Fill - SAND	May 2007	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH7	BH7_8.8-9	Fill - SAND	May 2007	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH8	BH8_0.1-0.2	Fill - GRAVEL	May 2007	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH8	BH8_6-6.5	Fill - CLAY	May 2007	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14	BH14_2-2.1	Fill - SAND	07 Feb 2011	Coffey 2011	-	-	-	-	3.6	-	-	-	-	-	-	-	-	-	-	-	-	-	3.6	-
BH14	BH14_5-5.1	Fill - CLAY	08 Feb 2011	Coffey 2011	-	-	-	-	0.16	-	-	-	-	-	-	-	-	-	-	-	-	-	0.16	-
BH14	BH14_8.2-8.3	Fill - SAND	08 Feb 2011	Coffey 2011	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	0	-
BH500	BH500_0.5	Fill - SAND	17 Feb 2022	865678	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0	<0.5
BH500	BH500_2.0	Fill - SAND	17 Feb 2022	865678	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	1.0	<0.5	<0.5	<0.5	1.1	0.9	0	3
BH500	QA20220217_PG6	Fill - SAND	17 Feb 2022	865678	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<1	<0.5	1.0	<0.5	<0.5	<0.5	<0.5	<2	1.0	0	2
BH500	QC20220217-PG6	Fill - SAND	17 Feb 2022	289593	<0.1	0.1	0.4	0.7	0.72	-	0.9	-	0.3	-	0.6	0.1	1.4	0.2	0.2	0.1	<1	1.4	1.3	0.919	8.4
BH500	BH500_3.5	Fill - SAND	17 Feb 2022	865678	<0.5	<0.5	<0.5	2.1	2.0	1.2	-	-	1.1	2.0	1.9	<0.5	2.7	<0.5	0.9	<0.5	<0.5	1.8	3.1	2.65	18.8
BH500	BH500_5.0	Fill - CLAY	17 Feb 2022	865678	<0.5	<0.5	<0.5	<1	<0.5	<0.5	-	-	<0.5	<1	<2	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<1	0	<2
BH500	BH500_6.5	Fill - CLAY	17 Feb 2022	865678	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0	<0.5
BH500	BH500_8.0	Fill - CLAY	17 Feb 2022	865678	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0	<0.5
BH500	BH500_9.5	Fill - CLAY	17 Feb 2022	865678	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0	<0.5
BH500	BH500_11.0	Fill - CLAY	17 Feb 2022	865678	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0	<0.5
BH501	BH501_1.0	Fill - SAND	17 Feb 2022	865678	<0.5	2.1	2.6	6.1	5.3	3.2	-	-	2.1	5.2	6.6	0.6	16	1.8	2.0	1.4	0.7	17	16	7.637	88
BH501	BH501_2.5	Fill - SAND	17 Feb 2022	865678	<0.5	<0.5	<0.5	2.5	2.4	1.7	-	-	1.2	2.9	2.8	<0.5	4.8	<0.5	1.0	<0.5	<0.5	2.6	5.2	3.25	27.1
BH501	BH501_4.0	Fill - SAND	17 Feb 2022	865678	<0.5	<0.5	<0.5	1.3	1.3	0.8	-	-	0.6	1.5	1.4	<0.5	2.3	<0.5	0.6	<0.5	<0.5	1.5	2.4	1.74	13.7
BH501	QA20220217_PG5	Fill - SAND	17 Feb 2022	865678	<0.5	<0.5	<5	2.6	<5	<2	-	-	1.6	<5	<5	<0.5	6.1	<0.5	1.4	<0.5	<0.5	<10	6.8	0.416	18.5
BH501	QC20220217-PG5	Fill - SAND	17 Feb 2022	289593	<0.1	0.2	0.8	2.3	2.4	-	3.3	-	1.3	-	1.7	0.4	4.1	0.2	1.2	<0.1	<1	1.8	3.8	3.18	24
BH501	BH501_5.5	Fill - CLAY	17 Feb 2022	865678	<0.5	<0.5	<0.5	1.4	1.3	0.7	-	-	0.7	0.9	1.3	<0.5	2.4	<0.5	0.7	<0.5	<0.5	1.3	2.6	1.69	13.3
BH501	BH501_7.0	Fill - SAND	17 Feb 2022	865678	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	0	1.2
BH501	BH501_8.5	Fill - SAND	17 Feb 2022	865678	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0	<0.5
BH501	BH501_10.0	Fill - CLAY	17 Feb 2022	865678	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0	<0.5
BH501	BH501_11.5	Fill - CLAY	17 Feb 2022	865678	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0	<0.5
BH502	BH502_1.0	Fill - SAND	17 Feb 2022	865678	<0.5	<0.5	<1	1.5	<1	<2	-	-	0.7	<2	<5	<0.5	2.0	<0.5	0.6	<0.5	<0.5	<2	2.5	0.217	7.3
BH502	BH502_2.0	Fill - SAND	17 Feb 2022	865678	<0.5	1.3	<5	5.3	<5	<5	-	-	2.0	<5	<20	<0.5	8.2	0.6	2.0	0.7	0.5	<10	10	0.75	30.1
BH502	BH502_3.5	Fill - SAND	17 Feb 2022	865678	1.9	<0.5	<10	8.3	<10	<5	-	-	3.0	<10	19	0.7	<20	2.9	2.2	<0.5	1.4	<50	23	1.97	61
BH502	BH502_5.0	Fill - SAND	17 Feb 2022	865678	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0	<0.5
BH502	BH502_6.5	Fill - SAND	17 Feb 2022	865678	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0	<0.5
BH502	BH502_8.0	Fill - CLAY	17 Feb 2022	865678	<0.5	<0.5	<0.5	0.7	0.5	<0.5	-	-	<0.5	<0.5	1.1	<0.5	1.4	<0.5	<0.5	<0.5	<0.5	1.6	2.0	0.581	7.3
BH502	BH502_9.5	Fill - CLAY	17 Feb 2022	865678	<0.5	<0.5	<2	1.7	<1	<1	-	-	0.6	<2	<10	<0.5	1.8	<0.5	<0.5	<0.5	<0.5	<5	3.8	0.176	<10
BH502	BH502_11.0	Fill - CLAY	17 Feb 2022	865678	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0	<0.5
BH502	BH502_12.5	Fill - CLAY	17 Feb 2022	865678	<0.5	<0.5	<0.5	1.0	0.7	0.5	-	-	<0.5	0.6	1.4	<0.5	1.7	<0.5	<0.5	<0.5	<0.5	2.5	2.9	0.924	11.3
BH503	BH503_0.5	Fill - SAND	17 Feb 2022	865678	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0	<0.5
BH503	BH503_2.0	Fill - SAND	17 Feb 2022	865678	<0.5	<0.5	<2	3.5	<5	<5	-	-	2.7	<5	6.3	0.6	5.2	<0.5	2.5	<0.5	<0.5	<5	6.0	1.29	26.8
BH503	BH503_3.5	Fill - SAND	17 Feb 2022	865678	<0.5	<0.5	<2	2.5	<5	<5	-	-	1.5	<5	4.1	<0.5	3.6	<0.5	1.4	<0.5	<0.5	<5	4.3	0.446	17.4
BH503	BH503_5.0	Fill - SAND	17 Feb 2022	865678	<0.5	<0.5	<0.5	1.5	<5	<2	-	-	1.2	<5	3.1	<0.5	2.5	<0.5	1.0	<0.5	<0.5	<1	2.6	0.293	11.9
BH503	BH503_6.5	Fill - SAND	17 Feb 2022	865678	<0.5	<0.5	<1	2.2	<2	<2	-	-	1.4	<2	4.9	<0.5	4.6	1.0	1.0	<0.5	<0.5	<5	3.8	0.383	18.9
BH503	BH503_8.0	Fill - CLAY	17 Feb 2022	865678	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	0	<2
BH503	BH503_9.5	Fill - CLAY	17 Feb 2022	865678	<0.5	<0.5	<1	0.9	<1	<1	-	-	<0.5	<1	1.9	<0.5	1.8	<0.5	<0.5	<0.5	<0.5	<2	2.1	0.109	6.7
BH503	BH503_11.0	Fill - CLAY	17 Feb 2022	865678	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	0	<1
BH503	BH503_12.5	Fill - CLAY	17 Feb 2022	865678	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	0.7	0	<1
BH504	BH504_0.5	Fill - SAND	17 Feb 2022	865678	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	0.5	0.6	<0.5	0.9	<0.5	<0.5	<0.5	<0.5	0.5	0.9	0.056	3.4
BH504	QA20220217_PG2	Fill - SAND	17 Feb 2022	865678	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	-	-	<0.5	<1	<2	<0.5	1.0	<0.5	<0.5	<0.5	<0.5	<1	1.2	0.06	2.8
BH504	QC20220217-PG2	Fill - SAND	17 Feb 2022	289593	<0.1	0.2	0.3	1	1.1	-	1	-	0.6	-	0.7	0.2	1.6	0.1	0.5	<0.1	<1	0.9	1.6	1.463	10
BH504	BH504_2.0	Fill - SAND	17 Feb 2022	865678	0.6	1.0	3.6	12	15	9.6	-	-	7.0	14	12	2.2	24	1.5	7.4	<0.5	<0.5	14	24	21.69	147.9
BH504	BH504_3.5	Fill - SAND	17 Feb 2022	865678	<0.5	<0.5	0.6	2.7	3.4	2.4	-	-	1.5	3.2	2.9	<0.5	5.2	<0.5	1.6	<0.5	<0.5	3.9	5.5	4.434	32.9
BH504	QA20220217_PG3	Fill - SAND	17 Feb 2022	865678	<0.5	<0.5	<2	3.1	<5	<5	-	-	2.8	<10	<10	1.0	5.3	<0.5	2.6	<0.5	<0.5	<5	6.6	1.598	21.4
BH504	QC20220217-PG3	Fill - SAND	17 Feb 2022	289593	0.4	0.7	3.0	7.5	8.1	-	6.8	-	4.1	-	2.5	1.3	14	0.6	3.6	0.2	<1	8.6	12	10.576	73
BH504	BH504_4.5	Fill - SAND	17 Feb 2022	865678	<0.5	<0.5	<0.5	1.6	2.0	1.4	-	-	0.9	2.2	1.8	<0.5	3.1	<0.5	0.9	<0.5	<0.5	1.8	3.0	2.637	18.7
BH504	BH504_6.0	Fill - SAND	17 Feb 2022	865678	<0.5	<0.5	0.8	3.2	3.2	2.0	-	-	1.3	3.1	3.7	<0.5	6.2	<0.5	1.3	<0.5	<0.5	3.4	6.5	4.21	34.7
BH504	BH504_7.5	Fill - SAND	17 Feb 2022	865678	<0.5	<0.5	<0.5	1.5	1.9	1.3	-	-	1.1	1.7	<2	<0.5	2.8	<0.5	0.9	<0.5	<0.5	1.0	2.7	2.451	14.9
BH504	BH504_9.0	Fill - CLAY	17 Feb 2022	865678	<0.5	1.8	25	35	25	14	-	-	8.8	21	32	3.7	84	7.1	8.9	<0.5	<0.5	78	75	36.998	419.3
BH504	BH504_10.5	Fill - CLAY	17 Feb 2022	865678	<0.5	<0.5	1.1	1.0	0.8	0.8	-	-	0.6	0.9	1.8	<0.5	2.4	<0.5	<0.5	<0.5	<0.5	2.2	2.1	1.094	13.7
BH504	BH504_12.0	Fill - CLAY	17 Feb 2022	865678	<0.5	<0.5	<0.5	0.5	<0.5	<0.5	-	-	<0.5	0.7	1.1	<0.5	0.9	<0.5	<0.5	<0.5	<0.5	0.5	1.0	0.131	4.7
BH505	BH505_1.5	Fill - SAND	17 Feb 2022	865678	<0.5	<0.5	1.5	3.0	2.1	2.1	-	-	1.8	2.6	4.9	<0.5	6.0	<0.5	<0.5	<0.5	<0.5	5.2	6.7	2.937	35.9
BH505	BH505_3.0	Fill - SAND	17 Feb 2022	865678	<0.5	<0.5	1.6	2.3	1.9	1.2	-	-	1.4	1.8	3.7	<0.5	3.8	<0.5	<0.5	<0.5	<0.5	3.5	4.0	2.481	25.2
BH505	QA20220217_PG4	Fill - SAND	17 Feb 2022	865678	<0.5	<0.5	<1	1.6	<2	<2	-	-	1.2	<5	<5	<0.5	3.4	<0.5	1.0	<0.5	<0.5	<5	3.8	0.272	11
BH505	QC20220217-PG4	Fill - SAND	17 Feb 2022	289593	0.3	0.4	1.5	3.8	3.9	-	2.8	-	1.9	-	1.0	0.6	6.3	0.6	1.7	0.4	<1	4.1	6.3	5.079	36
BH505	BH505_4.5	Fill - SAND	17 Feb 2022	865678	<0.5	<0.5	0.9	2.1	1.8	1.2	-	-	1.2	1.9	3.5	0.5	3.7	<0.5	1.0	<0.5	<0.5	2.4	3.6	2.967	23.8
BH505	BH505_6.0	Fill - SAND	17 Feb 2022	865678	<0.5	<0.5	0.6	1.3	1.1	1.2	-	-	0.8	1.3	2.2	<0.5	2.2	<0.5	<0.5	<0.5	<0.5	1.7	2.1	1.51	14.5
BH505	BH505_7.5	Fill - SAND	17 Feb 2022	865678	<0.5	<0.5	<0.5	0.9	0.7	0.7	-	-	0.7	0.8	1.6	<0.5	2.0	<0.5	<0.5	<0.5	<0.5	0.9	1.8	0.963	10.1
BH505	BH505_9.0	Fill - SAND	17 Feb 2022	865678	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0	<0.5
BH505	BH505_10.5	Fill - SAND	17 Feb 2022	865678	<0.5	<0.5	0.5	1.8	1.2	1.1	-	-	0.7	2.1	2.2	<0.5	3.4	<0.5	0.7	<0.5	<0.5	2.0	3.9	1.799	19.6
BH505	BH505_11.5	Fill - SAND	17 Feb 2022	865678	0.7	<0.5	1.8	2.5	2.3	1.3	-	-	0.9	2.6	3.0	<0.5	6.9	0.8	0.9	<0.5	<0.5	8.3	7.0	3.069	39
BH506	BH506_1.0	Fill - SAND	17 Feb 2022	865678	<0.5	<0.5	0.6	1.3	1.3	0.9	-	-	0.6	1.6	1.6	<0.5	3.1	<0.5	0.6	<0.5	<0.5	2.5	3.1	1.762	17.2

Table A - Soil
Project Number: 69329
Project Name: SSDA Stage 3, 960A Bourke Street, Zetland

	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b+j)fluoranthene	Benzo(b+j+k)fluoranthene	Benzo(b+k)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Naphthalene - PAH	Phenanthrene	Pyrene	Carcinogenic PAHs as B(a)P TEQ	PAHs (Sum of total)
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.1	0.1	0.1	0.1	0.05	0.5	0.2		0.1	0.5	0.1	0.1	0.1	0.1	0.1	0.1	0.5	0.1	0.1		0.05
NEPM 2013 Table 1A(1) HILs Res B Soil																				4[#5]	400[#6]
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay																5[#10]	5[#10]				
>=0m, <1m																5[#10]	5[#10]				
>=1m, <2m																					
>=2m, <4m																					
>=4m																					
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand																3[#10]	3[#10]				
>=0m, <1m																3[#10]	3[#10]				
>=1m, <2m																					
>=2m, <4m																					
>=4m																					
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																170	170				
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil					33 [#20]																
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil					33 [#20]																
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																					
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																					

Location Code	Field ID	Matrix Description	Date	Lab Report Number																					
BH506	BH506_2.5	Fill - SAND	17 Feb 2022	865678	<0.5	<0.5	<0.5	0.9	0.9	0.6	-	-	<0.5	1.1	1.0	<0.5	1.8	<0.5	<0.5	<0.5	<0.5	1.1	1.9	1.17	9.3
BH506	BH506_4.0	Fill - SAND	17 Feb 2022	865678	<0.5	<0.5	<0.5	1.1	0.9	0.6	-	-	<0.5	1.1	1.2	<0.5	2.3	<0.5	<0.5	<0.5	<0.5	1.8	2.3	1.192	11.3
BH506	BH506_5.0	Fill - SAND	17 Feb 2022	865678	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	0.7	<0.5	0.7	<0.5	<0.5	<0.5	<0.5	<0.5	0.8	0.007	2.2
BH506	BH506_6.5	Fill - SAND	17 Feb 2022	865678	<0.5	<0.5	0.6	0.8	0.6	0.7	-	-	0.7	0.7	1.7	<0.5	1.9	<0.5	<0.5	<0.5	<0.5	1.3	2.1	0.844	11.1
BH506	BH506_8.0	Fill - SAND	17 Feb 2022	865678	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0	<0.5
BH506	BH506_9.0	Fill - SAND	17 Feb 2022	865678	<0.5	<0.5	<0.5	0.6	1.0	0.5	-	-	0.6	1.0	0.9	<0.5	1.5	<0.5	0.6	<0.5	<0.5	0.7	1.5	1.285	8.9
BH507	BH507_0.5	Fill - SAND	17 Feb 2022	865678	<5	<5	<5	<5	<5	<5	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<0.5	<5	<5	0	<5
BH507	BH507_1.5	Fill - SAND	17 Feb 2022	865678	<0.5	<0.5	<0.5	0.6	<0.5	0.7	-	-	0.6	0.7	1.3	<0.5	1.0	<0.5	<0.5	<0.5	<0.5	0.6	1.2	0.219	6.7
BH507	QA20220217_PG1	Fill - SAND	17 Feb 2022	865678	<0.5	<0.5	<1	1.1	<2	<2	-	-	0.7	<2	<2	<0.5	2.1	<0.5	0.7	<0.5	<0.5	<2	2.2	0.187	6.8
BH507	QC20220217-PG1	Fill - SAND	17 Feb 2022	289593	<0.1	0.3	0.5	1.6	1.7	-	2.3	-	0.9	-	1.2	0.3	2.6	0.2	0.8	<0.1	<1	1.5	2.6	2.261	17
BH507	BH507_3.0	Fill - SAND	17 Feb 2022	865678	<0.5	<0.5	<0.5	0.8	0.5	0.6	-	-	0.6	0.8	1.2	<0.5	1.4	<0.5	<0.5	<0.5	<0.5	0.8	1.4	0.738	8.1
BH507	BH507_4.5	Fill - SAND	17 Feb 2022	865678	<0.5	<0.5	2.4	2.4	2.2	1.1	-	-	1.5	2.2	4.1	<0.5	6.3	0.6	<0.5	<0.5	<0.5	6.7	5.2	2.826	34.7
BH507	BH507_6.0	Fill - SAND	17 Feb 2022	865678	<0.5	<0.5	<0.5	0.6	0.6	<0.5	-	-	0.6	0.8	1.1	<0.5	1.2	<0.5	<0.5	<0.5	<0.5	0.9	1.2	0.757	7
BH507	BH507_7.5	Fill - SAND	17 Feb 2022	865678	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0	<0.5
BH507	BH507_9.0	Fill - SAND	17 Feb 2022	865678	<0.5	<0.5	0.5	1.3	<1	<1	-	-	<0.5	<1	2.1	<0.5	2.1	<0.5	<0.5	<0.5	<0.5	<2	2.4	0.151	8.4
BH507	BH507_10.5	Fill - SAND	17 Feb 2022	865678	<0.5	<0.5	<0.5	0.7	<0.5	<0.5	-	-	<0.5	<1	1.2	<0.5	1.2	<0.5	<0.5	<0.5	<0.5	<1	1.4	0.082	4.5
BH507	BH507_12.0	Fill - SAND	17 Feb 2022	865678	<0.5	<0.5	<1	1.0	<1	<1	-	-	<0.5	<1	1.7	<0.5	1.6	<0.5	<0.5	<0.5	<0.5	<2	2.0	0.117	6.3
BH508	BH508_0.5	Fill - SAND	18 Feb 2022	866070	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	0.7	<0.5	1.0	<0.5	<0.5	<0.5	<0.5	1.3	1.0	0.007	4
BH508	BH508_2.0	Fill - GRAVEL	18 Feb 2022	866070	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	0.7	0.7	<0.5	0.7	<0.5	<0.5	<0.5	<0.5	<0.5	0.9	0.077	3
BH508	BH508_3.5	Fill - SAND	18 Feb 2022	866070	<0.5	<0.5	0.7	2.1	2.2	1.8	-	-	1.4	2.4	3.6	<0.5	4.1	<0.5	1.0	<0.5	<0.5	1.6	4.7	2.98	25.6
BH508	BH508_4.5	Fill - SAND	18 Feb 2022	866070	<0.5	<0.5	0.7	1.7	1.6	1.3	-	-	1.3	2.5	3.5	<0.5	3.4	<0.5	1.0	<0.5	<0.5	1.4	3.9	2.298	22.3
BH508	BH508_6.0	Fill - SAND	18 Feb 2022	866070	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0	<0.5
BH508	BH508_7.0	Fill - SAND	18 Feb 2022	866070	<0.5	<0.5	<0.5	0.9	1.0	0.6	-	-	0.6	0.9	1.2	<0.5	1.5	<0.5	<0.5	<0.5	<0.5	0.7	1.7	1.258	9.1
BH509	BH509_0.5	Fill - SAND	18 Feb 2022	866070	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0	<0.5
BH509	BH509_2.0	Fill - SAND	18 Feb 2022	866070	<0.5	<0.5	1.1	1.5	0.9	0.8	-	-	0.7	1.8	2.6	<0.5	2.8	<0.5	<0.5	<0.5	<0.5	2.4	3.3	1.343	17.9
BH509	BH509_2.5	Fill - SAND	18 Feb 2022	866070	0.5	<0.5	1.0	1.2	0.7	0.9	-	-	0.8	1.6	2.4	<0.5	2.5	0.5	0.7	<0.5	<0.5	2.5	3.1	1.172	18.4
BH509	QA20220218PG3	Fill - SAND	18 Feb 2022	866070	<0.5	<0.5	0.8	1.5	1.5	1.3	-	-	0.7	1.5	2.1	<0.5	3.4	<0.5	0.8	<0.5	<0.5	3.2	3.2	2.038	20
BH509	QC20220218-PG3	Fill - SAND	18 Feb 2022	289684	0.3	0.2	0.8	2.0	2.2	-	2.8	-	1.2	-	1.5	<0.1	3.4	0.3	1	0.1	<1	2.5	3.4	2.527	22
BH509	BH509_3.5	Fill - SAND	18 Feb 2022	866070	1.2	<0.5	2.4	3.2	3.9	2.2	-	-	2.1	3.9	5.8	1.1	7.8	0.9	1.6	0.6	<0.5	3.7	7.9	6.169	48.3
BH509	BH509_5.0	Fill - SAND	18 Feb 2022	866070	10	<5	18	14	9.1	7.1	-	-	7.5	17	26	<5	41	<10	<10	<5	<0.5	25	43	13.245	217.7
BH509	BH509_6.5	Fill - SAND	18 Feb 2022	866070	<0.5	<0.5	0.6	1.2	1.5	0.8	-	-	0.9	1.0	1.7	<0.5	3.0	<0.5	0.7	<0.5	<0.5	1.7	3.0	1.896	16.1
BH509	BH509_7.5	Fill - SAND	18 Feb 2022	866070	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0	<0.5
BH510	BH510_1.0	Fill - SAND	18 Feb 2022	866070	<0.5	<0.5	<0.5	1.6	1.8	1.4	-	-	1.2	1.7	2.2	<0.5	2.9	<0.5	1.1	<0.5	<0.5	1.7	3.1	2.414	18.7
BH510	BH510_2.5	Fill - SAND	18 Feb 2022	866070	<0.5	<0.5	0.7	1.4	0.7	0.6	-	-	0.7	1.6	2.7	<0.5	2.5	<0.5	<0.5	<0.5	<0.5	1.5	2.7	1.094	15.1
BH510	BH510_4.0	Fill - CLAY	18 Feb 2022	866070	<0.5	<0.5	1.3	1.9	1.3	1.3	-	-	1.1	2.9	4.6	<0.5	5.1	<0.5	0.9	<0.5	<0.5	3.3	5.4	2.057	29.1
BH510	BH510_5.5	Fill - SAND	18 Feb 2022	866070	<0.5	0.5	0.8	2.0	2.0	1.5	-	-	1.0	2.3	2.8	<0.5	4.3	<0.5	0.7	<0.5	<0.5	3.5	4.5	2.688	25.9
BH510	BH510_7.0	Fill - SAND	18 Feb 2022	866070	<0.5	<0.5	0.7	2.3	2.3	1.8	-	-	1.2	2.6	3.1	<0.5	5.0	<0.5	1.1	<0.5	<0.5	3.4	5.8	3.123	29.3
BH510	BH510_8.0	Fill - SAND	18 Feb 2022	866070	<0.5	<0.5	0.6	1.2	1.1	1.0	-	-	0.6	1.3	1.7	<0.5	2.7	<0.5	0.6	<0.5	<0.5	2.4	2.8	1.533	16
BH511	BH511_0.5	Fill - SAND	18 Feb 2022	866070	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0	<0.5
BH511	BH511_2.0	Fill - SAND	18 Feb 2022	866070	<0.5	<0.5	<0.5	0.6	0.7	0.5	-	-	0.5	0.5	0.7	<0.5	0.9	<0.5	<0.5	<0.5	<0.5	<0.5	1.0	0.872	5.4
BH511	BH511_3.5	Fill - SAND	18 Feb 2022	866070	<0.5	<0.5	<0.5	0.8	0.9	<0.5	-	-	0.5	0.6	1.2	<0.5	1.3	<0.5	<0.5	<0.5	<0.5	0.8	1.5	1.057	7.6
BH511	BH511_5.0	Fill - SAND	18 Feb 2022	866070	<0.5	<0.5	<0.5	0.7	0.7	<0.5	-	-	0.5	0.6	1.0	<0.5	1.3	<0.5	<0.5	<0.5	<0.5	1.0	1.4	0.845	7.2
BH511	BH511_6.5	Fill - SAND	18 Feb 2022	866070	<0.5	<0.5	<0.5	1.0	1.2	0.7	-	-	0.7	0.8	0.8	<0.5	1.3	<0.5	0.5	<0.5	<0.5	<0.5	1.7	1.515	8.7
BH511	BH511_8.0	Fill - SAND	18 Feb 2022	866070	<0.5	<0.5	<0.5	2.6	2.6	1.1	-	-	<0.5	2.1	2.4	<0.5	3.3	<0.5	1.2	<0.5	<0.5	0.6	4.0	3.324	19.9
BH512	BH512_0.5	Fill - SAND	18 Feb 2022	866070	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0	<0.5
BH512	BH512_2.0	Fill - CLAY	18 Feb 2022	866070	<0.5	<0.5	<0.5	0.7	0.8	<0.5	-	-	0.5	0.6	0.8	<0.5	1.1	<0.5	<0.5	<0.5	<0.5	0.8	1.1	0.943	6.4
BH512	QA20220218PG1	Fill - CLAY	18 Feb 2022	866070	<0.5	<0.5	<0.5	0.6	0.7	<0.5	-	-	<0.5	0.6	0.9	<0.5	0.9	<0.5	<0.5	<0.5	<0.5	0.5	1.0	0.829	5.2
BH512	QC20220218-PG1	Fill - CLAY	18 Feb 2022	289684	<0.1	0.2	0.3	0.9	1.0	-	1	-	0.6	-	0.7	0.1	1.7	0.1	0.5	<0.1	<1	1	1.6	1.253	10
BH512	BH512_2.5	Fill - CLAY	18 Feb 2022	866070	<0.5	<0.5	<0.5	0.5	0.7	<0.5	-	-	<0.5	0.6	0.8	<0.5	1.0	<0.5	<0.5	<0.5	<0.5	0.5	0.9	0.818	5
BH512	BH512_3.5	Fill - GRAVEL	18 Feb 2022	866070	16	110	180	220	150	100	-	-	67	120	180	25	490	83	67	88	30	500	500	228.17	2,896
BH512	BH512_4.5	Fill - GRAVEL	18 Feb 2022	866070	20	95	150	240	200	130	-	-	84	150	210	31	600	110	86	160	62	710	530	294.54	3,506
BH512	BH512_5.5	Fill - GRAVEL	18 Feb 2022	866070	7.0	34	76	89	66	43	-	-	29	59	86	9.9	200	29	30	22	22	280	200	99.15	1,259.9
BHP3	BHP3_0.5-0.6	Fill_SAND	01 Feb 2011	Coffey 2011	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-
BHP3	BHP3_2-2.1	Fill_CLAY	01 Feb 2011	Coffey 2011	-	-	-	-	1.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.6	-
BHP3	BHP3_5.5-5.6	SAND	01 Feb 2011	Coffey 2011	-	-	-	-	0.67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.67	-
FC053	FC053_0-0.1	Fill_SAND	JBS&G 2014	403832	<0.5	<0.5	<0.5	0.9	1.1	1	-	-	0.9	0.8	1	<0.5	1.7	<0.5	0.8	<0.5	-	0.9	1.8	1.719	10.9
FC053	FC053_0-0.1	Fill_SAND	JBS&G 2014	404625	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC053	FC053_2-2.1	Fill_SAND	JBS&G 2014	403832	0.9	3.2	10	20	22	17	-	-	14	12	18	3.7	40	2.2	13	0.8	-	33	38	32.22	247.8
FC053	FC053_2-2.1	Fill_SAND	JBS&G 2014	404625	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC054	FC054_0.5	Fill_SAND	JBS&G 2014	403832	<0.5	<0.5	<0.5	1	1.4	1.3	-	-	0.9	0.9	1.2	<0.5	2.2	<0.5	0.8	<0.5	-	1.3	2.3	2.071	13.3
FC054	FC054_1-1.1	Fill_SAND	JBS&G 2014	403832	<0.5	<0.5	0.6	1.2	1.2	1.2	-	-	0.7	0.7	1.2	<0.5	2.6	<0.5	0.7	<0.5	-	1.7	2.5	1.849	14.3
FC055	FC055_0-0.1	Fill_SAND	JBS&G 2014	403832	<0.5	0.7	1.4	3.2	4.6	3.7	-	-	4.1	3.3	3.3	0.9	4.6	<0.5	3.4	<0.5	-	2.7	4.3	6.934	33.2
FC055	FC055_0-0.1	Fill_SAND	JBS&G 2014	404625	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC055	QC01	Fill_SAND	JBS&G 2014	403832	<0.5	1	2.8	7.7	8.5	7.1	-	-	5.6	5.9	8.2	1.6	14	<0.5	5.1	<0.5	-	7.2	14	12.82	88.7
FC055	QC01	Fill_SAND	JBS&G 2014	404625	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC055	QC01-A	Fill_SAND	JBS&G 2014	102718	<0.1	0.2	0.4	1.7	2.7	-	-	4.1	1.7	-	1.7	0.4	2.5	<0.1	1.7	<0.1	-	1	2.6	3.474	20.7
FC055	FC055_1-1.1	Fill_SAND	JBS&G 2014	403832	<0.5	9.6	24	75	77	78	-	-	41	32	77	13	100	1.7	39	1.1	-	19	140	113.6	727.4
FC055	FC055_1-1.1	Fill_SAND	JBS&G 2014	404625	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC055	FC055_4-4.1	Fill_SAND	JBS&G 2014	403832	<0.5	3	6	19	20	19	-	-	15	14	21	4.3	22	<0.5	13	<0.5	-	3.5	30	31.16	189.8
FC055	FC055_4-4.1	Fill_SAND	JBS&G 2014	404625	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC056	FC056_2-2.1	Fill_SAND	JBS&G 2014	403832	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	0.7	<0.5	<0.5	<0.5	-	<0.5	0.7	0.605	1.4
FC056	FC056_3-3.1	Fill_SAND	JBS&G 2014	403832	<0.5	<0.5	<0.5	1.1	1.1	1	-	-	0.7	0.7	1	<0.5	2.1	<0.5	0.6	<0.5	-	0.9	2	1.707	11.2
FC057	FC057_0-0.1	Fill_SAND	JBS&G 2014	403941	<0.5	1.1	5.8	12	14	9.9	-	-	6.8	7.3	10	1.9	25	0.9	5.9	0.7	-	25	24	19.58	150.3
FC057	FC057_0-0.1	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table A - Soil
Project Number: 69329
Project Name: SSDA Stage 3, 960A Bourke Street, Zetland

	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b+j)fluoranthene	Benzo(b+j+k)fluoranthene	Benzo(b+k)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Naphthalene - PAH	Phenanthrene	Pyrene	Carcinogenic PAHs as B(a)P TEQ	PAHs (Sum of total)
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.1	0.1	0.1	0.1	0.05	0.5	0.2		0.1	0.5	0.1	0.1	0.1	0.1	0.1	0.1	0.5	0.1	0.1		0.05
NEPM 2013 Table 1A(1) HILs Res B Soil																				4 [#5]	400 [#6]
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay																5 [#10]	5 [#10]				
>=0m, <1m																5 [#10]	5 [#10]				
>=1m, <2m																					
>=2m, <4m																					
>=4m																					
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand																3 [#10]	3 [#10]				
>=0m, <1m																3 [#10]	3 [#10]				
>=1m, <2m																					
>=2m, <4m																					
>=4m																					
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																170	170				
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil					33 [#20]																
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil					33 [#20]																
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																					
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																					

Location Code	Field ID	Matrix Description	Date	Lab Report Number																			
FC057	FC057_2-2.1	Fill_SAND	JBS&G 2014	403941	<0.5	<0.5	<0.5	1.1	1.2	0.8	-	-	0.8	0.8	0.9	<0.5	2	<0.5	0.7	<0.5	-	1	1.9	1.807	11.2
FC058	FC058_0.5-0.6	Fill_SAND	JBS&G 2014	403941	<0.5	<0.5	0.6	2.2	2.8	2.7	-	-	1.6	1.8	1.8	<0.5	3.5	<0.5	1.4	<0.5	-	1.8	3.4	3.894	23
FC058	FC058_0.5-0.6	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC058	QC02	Fill_SAND	JBS&G 2014	403941	<0.5	<0.5	<0.5	1.6	1.8	1.7	-	-	1.1	1.1	1.3	<0.5	2.4	<0.5	0.9	<0.5	-	1.1	2.4	2.604	15.4
FC058	QC02	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC058	QC02-A	Fill_SAND	JBS&G 2014	102801	<0.1	0.4	0.7	4.2	4.4	-	-	6.5	2.3	-	3.6	0.4	6.8	0.1	2.4	0.1	-	2.3	6.9	5.519	41.1
FC058	FC058_5-5.1	Fill_SAND	JBS&G 2014	403941	<0.5	<0.5	0.6	2.2	2.2	1.3	-	-	1.1	1.4	1.7	<0.5	3.6	<0.5	1	<0.5	-	1.7	3.4	3.068	20.2
FC058	FC058_5-5.1	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC059	FC059_0.5-0.6	Fill_SAND	JBS&G 2014	403941	<0.5	<0.5	1.6	4.4	4.6	4	-	-	2.3	2.7	3.9	0.6	8.1	<0.5	2	<0.5	-	5.7	8.1	6.572	48
FC059	FC059_0.5-0.6	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC059	FC059_1-1.1	Fill_SAND	JBS&G 2014	403941	<0.5	0.7	4.5	23	18	16	-	-	11	11	17	2.6	33	<0.5	8.9	<0.5	-	11	36	26.77	192.7
FC059	FC059_1-1.1	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC060	FC060_1-1.1	Fill_SAND	JBS&G 2014	403941	<0.5	<0.5	<0.5	0.5	0.8	0.7	-	-	0.6	<0.5	0.5	<0.5	0.9	<0.5	<0.5	<0.5	-	0.5	1	1.231	5.5
FC060	FC060_2-2.1	Fill_SAND	JBS&G 2014	403941	<0.5	0.5	1.6	9.8	13	12	-	-	9	7.2	7.9	2.2	7	<0.5	6.5	0.6	-	2.1	14	18.92	93.4
FC060	FC060_2-2.1	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC060	FC060_3-3.1	Fill_SAND	JBS&G 2014	403941	<0.5	<0.5	0.7	3.7	5.4	5.5	-	-	3.9	3.2	3.2	1	1.9	<0.5	2.9	<0.5	-	0.6	4.8	8.001	36.8
FC060	FC060_3-3.1	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC061	FC061_1-1.1	Fill_SAND	JBS&G 2014	403941	<0.5	0.7	2.1	5.3	5.7	2.8	-	-	2.9	3.3	4	0.8	10	0.6	2.5	<0.5	-	5.9	8.9	7.959	55.5
FC061	FC061_1-1.1	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC061	FC061_3-3.1	Fill_SAND	JBS&G 2014	403941	<0.5	<0.5	1.2	3.6	3.5	2.1	-	-	1.8	2	2.8	<0.5	6.4	<0.5	1.6	<0.5	-	4.8	6.1	4.726	35.9
FC061	FC061_3-3.1	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC062	FC062_0.1-0.2	Fill_SAND	JBS&G 2014	405422	<0.5	<0.5	<0.5	1.5	1.7	1.1	-	-	1.4	2.1	1.5	<0.5	2.6	<0.5	1.1	<0.5	-	1.2	2.8	2.559	17
FC062	FC062_0.1-0.2	Fill_SAND	JBS&G 2014	406078	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC062	QC05	Fill_SAND	JBS&G 2014	405422	<0.5	<0.5	0.5	1.1	1.1	1	-	-	0.8	1.2	1	<0.5	2.1	<0.5	0.6	<0.5	-	1.6	2.1	1.758	13.1
FC062	QC05-A	Fill_SAND	JBS&G 2014	103460	<0.1	0.3	0.5	2	2.6	-	-	4	1.7	-	2.1	0.3	4	0.1	1.8	<0.1	-	2.2	4.2	3.318	25.8
FC062	FC062_3.8-4	Fill_CLAY	JBS&G 2014	405422	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	0.605	-
FC063	FC063_1.6-1.8	Fill_SAND	JBS&G 2014	405422	<0.5	3.4	4.2	7.9	9	4.7	-	-	4.9	9.4	7.2	1.5	15	2.1	4.5	1.1	-	11	13	13.27	98.9
FC063	FC063_1.6-1.8	Fill_SAND	JBS&G 2014	406078	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC063	FC063_3.8-4	Fill_SAND	JBS&G 2014	405422	<0.5	<0.5	<0.5	1	1.2	0.8	-	-	0.9	1.3	1.1	<0.5	1.6	<0.5	0.8	<0.5	-	<0.5	1.8	1.86	10.5
FC064	FC064_0.1-0.2	Fill_SAND	JBS&G 2014	405524	<0.5	<0.5	0.6	1.4	1.4	1.3	-	-	0.8	0.7	1.3	<0.5	3.1	<0.5	0.7	<0.5	-	1.7	2.8	2.081	15.8
FC064	FC064_0.1-0.2	Fill_SAND	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC064	FC064_0.5-0.7	Fill_GRAVEL	JBS&G 2014	405524	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	0.605	-
FC064	FC064_3.1-3.3	Fill_SAND	JBS&G 2014	405524	<0.5	<0.5	<0.5	0.5	0.9	0.8	-	-	0.9	<0.5	0.5	<0.5	0.8	<0.5	0.6	<0.5	-	<0.5	0.8	1.379	5.8
FC064	FC064_3.1-3.3	Fill_SAND	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC064	FC064_4.7-4.9	Fill_CLAY	JBS&G 2014	405524	<0.5	<0.5	<0.5	0.6	1.1	1.3	-	-	1	0.6	0.6	<0.5	<0.5	<0.5	0.8	<0.5	-	<0.5	0.5	1.696	6.5
FC065	FC065_0.1-0.2	Fill_SAND	JBS&G 2014	405524	<0.5	<0.5	<0.5	0.7	0.7	0.9	-	-	<0.5	<0.5	0.7	<0.5	1.5	<0.5	<0.5	<0.5	-	0.9	1.5	1.17	6.9
FC065	FC065_0.5-0.7	Fill_CLAY	JBS&G 2014	405524	<0.5	<0.5	<0.5	0.9	0.9	0.8	-	-	0.5	<0.5	0.8	<0.5	1.6	<0.5	<0.5	<0.5	-	0.7	1.6	1.383	7.8
FC065	FC065_0.5-0.7	Fill_CLAY	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC065	FC065_1-1.2	Fill_CLAY	JBS&G 2014	405524	2.7	3.6	13	38	40	35	-	-	23	16	34	5.6	77	3.6	19	0.8	-	34	79	56.97	421.6
FC065	FC065_1-1.2	Fill_CLAY	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC065	FC065_2.3-2.5	Fill_CLAY	JBS&G 2014	405524	<0.5	<0.5	<0.5	1.2	1.3	1.1	-	-	0.7	0.6	1.1	<0.5	2.4	<0.5	0.7	<0.5	-	1.6	2.3	1.928	13
FC065	FC065_2.3-2.5	Fill_CLAY	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC065	FC065_3-3.2	Fill_SAND	JBS&G 2014	405524	<0.5	<0.5	<0.5	0.5	0.8	0.7	-	-	0.6	<0.5	0.5	<0.5	0.7	<0.5	<0.5	<0.5	-	<0.5	0.8	1.231	4.6
FC066	FC066_0.5-0.7	Fill_SAND	JBS&G 2014	405524	<0.5	<0.5	<0.5	1.4	1.5	1.3	-	-	1	0.8	1.2	<0.5	2.4	<0.5	0.8	<0.5	-	0.9	2.4	2.202	13.7
FC066	FC066_0.5-0.7	Fill_SAND	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC066	FC066_1.5-1.7	Fill_SAND	JBS&G 2014	405524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	-	-	-	-
FC066	FC066_1.5-1.7	Fill_SAND	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC066	FC066_2.5-2.7	Fill_SAND	JBS&G 2014	405524	<0.5	<0.5	<0.5	0.8	0.9	0.9	-	-	0.7	<0.5	0.7	<0.5	1.4	<0.5	0.5	<0.5	-	0.7	1.4	1.409	8
FC066	FC066_2.5-2.7	Fill_SAND	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC066	FC066_3.1-3.3	Fill_SAND	JBS&G 2014	405524	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	0.605	-
FC067	FC067_0.5-0.6	Fill_SAND	JBS&G 2014	405524	<0.5	<0.5	0.7	2.5	2.5	2.6	-	-	1.6	1.2	2.2	<0.5	4.7	<0.5	1.3	<0.5	-	1.2	4.6	3.548	25.1
FC067	FC067_0.5-0.6	Fill_SAND	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC067	FC067_0.9-1.1	Fill_GRAVEL	JBS&G 2014	405524	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	0.605	-
FC067	FC067_3.1-3.3	Fill_SAND	JBS&G 2014	405524	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	0.605	-
FC068	FC068_0.1-0.2	Fill_SAND	JBS&G 2014	405524	<0.5	<0.5	<0.5	1.7	1.8	1.9	-	-	1.1	0.8	1.6	<0.5	3	<0.5	0.9	<0.5	-	1.2	2.7	2.607	16.7
FC068	FC068_0.1-0.2	Fill_SAND	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC068	FC068_1.1-1.3	Fill_CLAY	JBS&G 2014	405524	<0.5	<0.5	<0.5	1.4	1.5	1.7	-	-	1	0.8	1.3	<0.5	2.3	<0.5	0.8	<0.5	-	1.1	2.4	2.243	14.3
FC068	FC068_1.1-1.3	Fill_CLAY	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC068	FC068_4.8-5	Fill_CLAY	JBS&G 2014	405524	<0.5	<0.5	<0.5	0.9	1	1	-	-	1.1	0.5	0.8	<0.5	1.4	<0.5	0.7	<0.5	-	0.8	1.5	1.579	9.7
FC068	FC068_4.8-5	Fill_CLAY	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC069	FC069_6-6.1	Fill_SAND	JBS&G 2014	405819	1	5	13	23	19	11	-	-	8.6	18	19	2.7	45	4.4	8.5	2.7	-	39	40	28.03	259.9
FC069	FC069_6-6.1	Fill_SAND	JBS&G 2014	406432	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC069	FC069_8-8.1	SAND	JBS&G 2014	405819	<0.5	1.1	1.9	3.7	3.3	2.2	-	-	1.4	3.1	3.2	<0.5	6.9	0.5	1.4	<0.5	-	4.9	6.6	4.636	40.2
FC069	FC069_8-8.1	SAND	JBS&G 2014	406432	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC070	FC070_0.1-0.2	Fill_SAND	JBS&G 2014	405454	<0.5	<0.5	1.2	3.1	3.3	2.7	-	-	1.9	3.6	2.9	<0.5	5.9	<0.5	1.8	<0.5	-	4.3	5.7	4.718	36.4
FC070	FC070_0.1-0.2	Fill_SAND	JBS&G 2014	406249	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC070	FC070_0.5-0.6	Fill_SAND	JBS&G 2014	405454	<0.5	<0.5	0.7	2.5	2.5	2.2	-	-	1.3	2.5	2.3	<0.5	3.9	<0.5	1.2	<0.5	-	1.3	3.9	3.626	24.3
FC070	FC070_0.5-0.6	Fill_SAND	JBS&G 2014	406249	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC070	FC070_6-6.1	Fill_SAND	JBS&G 2014	405819	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	0.605	-
FC070	QC18	Fill_SAND	JBS&G 2014	405819	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	0.605	-
FC070	QC18-A	Fill_SAND	JBS&G 2014	103629	<0.1	<0.1	<0.1	<0.1	<0.05	-	-	<0.2	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	0.086	-
FC071	FC071_0.5-0.8	Fill_SAND	JBS&G 2014	405454	<0.5	1.4	2.3	9.4	13	9.3	-	-	8.5	11	10	2	15	<0.5	6.8	0.5	-	6.8	16	18.84	112
FC071	FC071_0.5-0.8	Fill_SAND	JBS&G 2014	406249	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC071	FC071_2.8-3	Fill_SAND	JBS&G 2014	405454	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	0.605	-

Table A - Soil
Project Number: 69329
Project Name: SSDA Stage 3, 960A Bourke Street, Zetland

	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b+j)fluoranthene	Benzo(b+j+k)fluoranthene	Benzo(b+k)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Naphthalene - PAH	Phenanthrene	Pyrene	Carcinogenic PAHs as B(a)P TEQ	PAHs (Sum of total)
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.1	0.1	0.1	0.1	0.05	0.5	0.2		0.1	0.5	0.1	0.1	0.1	0.1	0.1	0.1	0.5	0.1	0.1		0.05
NEPM 2013 Table 1A(1) HILs Res B Soil																				4 [#5]	400 [#6]
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay																5 [#10]	5 [#10]				
>=0m, <1m																5 [#10]	5 [#10]				
>=1m, <2m																					
>=2m, <4m																					
>=4m																					
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand																3 [#10]	3 [#10]				
>=0m, <1m																3 [#10]	3 [#10]				
>=1m, <2m																					
>=2m, <4m																					
>=4m																					
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																170	170				
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil					33 [#20]																
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NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																					
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																					

Location Code	Field ID	Matrix Description	Date	Lab Report Number																				
FC071	FC071_2.8-3	Fill_SAND	JBS&G 2014	406249	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC071	FC071_4.8-5	Fill_SAND	JBS&G 2014	405454	<0.5	0.8	1.3	5.7	7.3	5.4	-	-	4.6	6.7	5.8	1.2	8.2	<0.5	3.9	<0.5	-	3.6	8.6	10.77	63.1
FC071	FC071_4.8-5	Fill_SAND	JBS&G 2014	406249	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC071	FC071_6-6.1	Fill_SAND	JBS&G 2014	405819	<0.5	0.7	1.9	4.1	4	2.7	-	-	1.9	4.2	3.7	0.6	7.8	0.7	1.8	<0.5	-	5.4	7.5	5.936	47
FC071	FC071_6-6.1	Fill_SAND	JBS&G 2014	406432	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC071	FC071_8-8.1	Fill_SAND	JBS&G 2014	405819	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	-	-	-	-
FC072	FC072_0.4-0.6	Fill_SAND	JBS&G 2014	405454	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	0.605	-
FC072	FC072_1.5-0.7	Fill_CLAY	JBS&G 2014	405454	<0.5	<0.5	0.6	0.9	0.7	<0.5	-	-	<0.5	0.8	0.8	<0.5	2.2	<0.5	<0.5	<0.5	-	1.9	1.8	1.181	9.7
FC072	FC072_2.9-3.1	Fill_CLAY	JBS&G 2014	405454	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	0.605	-
FC072	FC072_6-6.1	Fill_CLAY	JBS&G 2014	405819	<0.5	<0.5	<0.5	0.6	0.5	<0.5	-	-	<0.5	0.5	0.5	<0.5	1	<0.5	<0.5	<0.5	-	0.6	0.9	0.9175	4.6
FC072	FC072_6-6.1	Fill_CLAY	JBS&G 2014	406432	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I3	I3_3.9-4	Fill - SAND	04 Feb 2011	Coffey 2011	-	-	-	-	4.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I3	I3_5.4-5.5	Fill - CLAY	04 Feb 2011	Coffey 2011	-	-	-	-	2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R31	R31_0.5-0.6	Fill - SAND	04 Feb 2011	Coffey 2011	-	-	-	-	2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R32	R32_0.5-0.6	Fill - SAND	03 Feb 2011	Coffey 2011	-	-	-	-	3.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R32	R32_2-2.1	Fill - SAND	03 Feb 2011	Coffey 2011	-	-	-	-	2.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R33	R33_1.5-1.6	Fill - SAND	04 Feb 2011	Coffey 2011	-	-	-	-	0.34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Comments

#1 Arsenic: HIL assumes 70% oral bioavailability. Site-specific bioavailability maybe important and should be considered where appropriate (refer Shedule B7).
#2 Trigger Value adopted from Chromium (VI)
#3 Lead: HILs A,B,C based on blood lead models (IEUBK & HIL D on adult lead model for where 50% bioavailability considered. Site-specific bioavailability should be considered where appropriate.

#4 Elemental mercury: HIL does not address elemental mercury. a site specific assessment should be considered if elemental mercury is present, or suspected to be present.

#5 Carcinogenic PAHs: HIL based on 8 carc. PAHs & their TEFs (rel to BaP ref Schedule 7) BaP TEQ calc by multiplying the conc of each carc. PAH in sample by its BaP TEF (ref Table 1A(1)) & summing

#6 Total PAHs: Based on sum of 16 most common reported (WHO 98). HIL application should consider presence of carcinogenic PAHs (should meet BaP TEQ HIL) & napthalene (should meet relevant HSL)

#7 PCBs: HIL refers to non-dioxin like PCBs only. Where PCB source is known, or suspected at a site, a site-specific assessment of exposure to all PCBs (inc dioxin like PCBs) should be undertaken
#8 Derived soil HSL exceeds soil saturation concentraiton. To obtain F1 subtract the sum of BTEX concentrations from the C6 - C10 fraction.
#9 Derived soil HSL exceeds soil saturation concentraiton. To obtain F2 subtract naphthalene from the >C10-C16 fraction
#10 Derived soil HSL exceeds soil saturation concentraiton

#11 Aged values apply to arsenic contamination present in soil > 2 years. Refer Schedule B5c for < 2 years.
#12 Trigger Value taken for Chromium (III), Clay Content of 1%
#13 Trigger Value taken for pH 4.5
#14 Trigger Value taken for CEC 5
#15 Trigger Value taken for pH 4 and CEC 5
#16 ESLs are of low reliability.
#17 ESLs are of moderate reliability. To obtain F1 subtract the sum of BTEX concentrations from the C6 - C10

#18 ESLs are of moderate reliability. To obtain F2 subtract napthalene from the >C10 - C16 fraction.
#19 Separate management limits for BTEX & naphthalene are not available hence should not be subtracted from the relevant fractions to obtain F1 & F2

#20 Ecological Investigation Levels (EIL) for B(a)P in residential land uses (CRCCare 2017)

Environmental Standards
NEPM, NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil
NEPM, NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil

Table A - Soil
Project Number: 69329
Project Name: SSDA Stage 3, 960A Bourke Street, Zetland

	Organochlorine Pesticides																										
	a-BHC	b-BHC	d-BHC	g-BHC (Lindane)	Aldrin	Dieldrin	Aldrin + Dieldrin	Chlordane	Chlordane (cis)	DDE	DDD	DDT+DDE+DDD	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	gamma-Chlordane	Heptachlor	Heptachlor Epoxide	Hexachlorobenzene	Methoxychlor	Toxaphene
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL																								
NEPM 2013 Table 1A(1) HILs Res B Soil							10	90				600				20				10		15	500	30
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay																								
>=0m, <1m																								
>=1m, <2m																								
>=2m, <4m																								
>=4m																								
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand																								
>=0m, <1m																								
>=1m, <2m																								
>=2m, <4m																								
>=4m																								
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																								
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																								
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																								
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																								
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																								

Location Code	Field ID	Matrix Description	Date	Lab Report Number																								
BH10	BH10_4.3-4.5	Fill - SAND	May 2007	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH10	BH10_7-7.5	Fill - CLAY	May 2007	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH13	BH13_0.3-0.4	Fill - SAND	May 2007	HLA 2007	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.2	<1
BH13	BH13_7.6-8	Fill - SAND	May 2007	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH7	BH7_0.2-0.4	Fill - SAND	May 2007	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH7	BH7_8.8-9	Fill - SAND	May 2007	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH8	BH8_0.1-0.2	Fill - GRAVEL	May 2007	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH8	BH8_6-6.5	Fill - CLAY	May 2007	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14	BH14_2-2.1	Fill - SAND	07 Feb 2011	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14	BH14_5-5.1	Fill - CLAY	08 Feb 2011	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14	BH14_8.2-8.3	Fill - SAND	08 Feb 2011	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH500	BH500_0.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH500	BH500_2.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH500	QA20220217_PG6	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH500	QC20220217-PG6	Fill - SAND	17 Feb 2022	289593	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH500	BH500_3.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH500	BH500_5.0	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH500	BH500_6.5	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH500	BH500_8.0	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH500	BH500_9.5	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH500	BH500_11.0	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH501	BH501_1.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH501	BH501_2.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH501	BH501_4.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH501	QA20220217_PG5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH501	QC20220217-PG5	Fill - SAND	17 Feb 2022	289593	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH501	BH501_5.5	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH501	BH501_7.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH501	BH501_8.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH501	BH501_10.0	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH501	BH501_11.5	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH502	BH502_1.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH502	BH502_2.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH502	BH502_3.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH502	BH502_5.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH502	BH502_6.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH502	BH502_8.0	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH502	BH502_9.5	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH502	BH502_11.0	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH502	BH502_12.5	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH503	BH503_0.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH503	BH503_2.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH503	BH503_3.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH503	BH503_5.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH503	BH503_6.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH503	BH503_8.0	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH503	BH503_9.5	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH503	BH503_11.0	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH503	BH503_12.5	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH504	BH504_0.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH504	QA20220217_PG2	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH504	QC20220217-PG2	Fill - SAND	17 Feb 2022	289593	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH504	BH504_2.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH504	BH504_3.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH504	QA20220217_PG3	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH504	QC20220217-PG3	Fill - SAND	17 Feb 2022	289593	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH504	BH504_4.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH504	BH504_6.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH504	BH504_7.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH504	BH504_9.0	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH504	BH504_10.5	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH504	BH504_12.0	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH505	BH505_1.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH505	BH505_3.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH505	QA20220217_PG4	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH505	QC20220217-PG4	Fill - SAND	17 Feb 2022	289593	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH505	BH505_4.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH505	BH505_6.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH505	BH505_7.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH505	BH505_9.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH505	BH505_10.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH505	BH505_11.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH506	BH506_1.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table A - Soil
Project Number: 69329
Project Name: SSDA Stage 3, 960A Bourke Street, Zetland

	Organochlorine Pesticides																									
	a-BHC	b-BHC	d-BHC	g-BHC (Lindane)	Aldrin	Dieldrin	Aldrin + Dieldrin	Chlordane	Chlordane (cis)	DDE	DDD	DDT+DDE+DDD	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	gamma-Chlordane	Heptachlor	Heptachlor Epoxide	Hexachlorobenzene	Methoxychlor	Toxaphene
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL																								
NEPM 2013 Table 1A(1) HILs Res B Soil							10	90				600				20				10		15	500	30
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay																								
>=0m, <1m																								
>=1m, <2m																								
>=2m, <4m																								
>=4m																								
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand																								
>=0m, <1m																								
>=1m, <2m																								
>=2m, <4m																								
>=4m																								
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																								
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																								
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																								
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																								
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																								

Location Code	Field ID	Matrix Description	Date	Lab Report Number																								
BH506	BH506_2.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH506	BH506_4.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH506	BH506_5.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH506	BH506_6.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH506	BH506_8.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH506	BH506_9.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH507	BH507_0.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH507	BH507_1.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH507	QA20220217_PG1	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH507	QC20220217-PG1	Fill - SAND	17 Feb 2022	289593	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH507	BH507_3.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH507	BH507_4.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH507	BH507_6.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH507	BH507_7.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH507	BH507_9.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH507	BH507_10.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH507	BH507_12.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH508	BH508_0.5	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH508	BH508_2.0	Fill - GRAVEL	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH508	BH508_3.5	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH508	BH508_4.5	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH508	BH508_6.0	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH508	BH508_7.0	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH509	BH509_0.5	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH509	BH509_2.0	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH509	BH509_2.5	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH509	QA20220218PG3	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH509	QC20220218-PG3	Fill - SAND	18 Feb 2022	289684	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH509	BH509_3.5	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH509	BH509_5.0	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH509	BH509_6.5	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH509	BH509_7.5	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH510	BH510_1.0	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH510	BH510_2.5	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH510	BH510_4.0	Fill - CLAY	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH510	BH510_5.5	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH510	BH510_7.0	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH510	BH510_8.0	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH511	BH511_0.5	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH511	BH511_2.0	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH511	BH511_3.5	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH511	BH511_5.0	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH511	BH511_6.5	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH511	BH511_8.0	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH512	BH512_0.5	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH512	BH512_2.0	Fill - CLAY	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH512	QA20220218PG1	Fill - CLAY	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH512	QC20220218-PG1	Fill - CLAY	18 Feb 2022	289684	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH512	BH512_2.5	Fill - CLAY	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH512	BH512_3.5	Fill - GRAVEL	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH512	BH512_4.5	Fill - GRAVEL	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH512	BH512_5.5	Fill - GRAVEL	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP3	BHP3_0.5-0.6	Fill_SAND	01 Feb 2011	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP3	BHP3_2-2.1	Fill_CLAY	01 Feb 2011	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP3	BHP3_5.5-5.6	SAND	01 Feb 2011	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC053	FC053_0-0.1	Fill_SAND	JBS&G 2014	403832	<0.05	-	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.2	<1
FC053	FC053_0-0.1	Fill_SAND	JBS&G 2014	404625	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC053	FC053_2-2.1	Fill_SAND	JBS&G 2014	403832	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC053	FC053_2-2.1	Fill_SAND	JBS&G 2014	404625	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC054	FC054_0.5	Fill_SAND	JBS&G 2014	403832	<0.05	-	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.2	<1
FC054	FC054_1-1.1	Fill_SAND	JBS&G 2014	403832	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC055	FC055_0-0.1	Fill_SAND	JBS&G 2014	403832	<0.05	-	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.2	<1
FC055	FC055_0-0.1	Fill_SAND	JBS&G 2014	404625	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC055	QC01	Fill_SAND	JBS&G 2014	403832	<0.05	-	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.2	<1
FC055	QC01	Fill_SAND	JBS&G 2014	404625	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC055	QC01-A	Fill_SAND	JBS&G 2014	102718	<0.1	-	<0.1	<0.1	<0.1	<0.1	0.1	-	<0.1	<0.1	-	0.15	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-
FC055	FC055_1-1.1	Fill_SAND	JBS&G 2014	403832	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC055	FC055_1-1.1	Fill_SAND	JBS&G 2014	404625	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC055	FC055_4-4.1	Fill_SAND	JBS&G 2014	403832	<0.05	-	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.2	<1
FC055	FC055_4-4.1	Fill_SAND	JBS&G 2014	404625	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC056	FC056_2-2.1	Fill_SAND	JBS&G 2014	403832	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC056	FC056_3-3.1	Fill_SAND	JBS&G 2014	403832	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC057	FC057_0-0.1	Fill_SAND	JBS&G 2014	403941	<0.05	-	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.2	<1
FC057	FC057_0-0.1	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table A - Soil
Project Number: 69329
Project Name: SSDA Stage 3, 960A Bourke Street, Zetland

JBS&G

	Organochlorine Pesticides																								
	a-BHC	b-BHC	d-BHC	g-BHC (Lindane)	Aldrin	Dieldrin	Aldrin + Dieldrin	Chlordane	Chlordane (cis)	DDE	DDD	DDT+DDE+DDD	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	gamma-Chlordane	Heptachlor	Heptachlor Epoxide	Hexachlorobenzene	Methoxychlor	Toxaphene
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL																								
NEPM 2013 Table 1A(1) HILs Res B Soil							10	90				600				20				10		15	500	30
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay																								
>=0m, <1m																								
>=1m, <2m																								
>=2m, <4m																								
>=4m																								
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand																								
>=0m, <1m																								
>=1m, <2m																								
>=2m, <4m																								
>=4m																								
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																								
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																								
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																								
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																								
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																								

Location Code	Field ID	Matrix Description	Date	Lab Report Number																							
FC057	FC057_2-2.1	Fill_SAND	JBS&G 2014	403941	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC058	FC058_0.5-0.6	Fill_SAND	JBS&G 2014	403941	<0.05	-	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
FC058	FC058_0.5-0.6	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC058	QC02	Fill_SAND	JBS&G 2014	403941	<0.05	-	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
FC058	QC02	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC058	QC02-A	Fill_SAND	JBS&G 2014	102801	<0.1	-	<0.1	<0.1	<0.1	<0.1	0.1	-	<0.1	<0.1	-	0.15	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	-
FC058	FC058_5-5.1	Fill_SAND	JBS&G 2014	403941	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC058	FC058_5-5.1	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC059	FC059_0.5-0.6	Fill_SAND	JBS&G 2014	403941	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC059	FC059_0.5-0.6	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC059	FC059_1-1.1	Fill_SAND	JBS&G 2014	403941	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC059	FC059_1-1.1	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC060	FC060_1-1.1	Fill_SAND	JBS&G 2014	403941	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC060	FC060_2-2.1	Fill_SAND	JBS&G 2014	403941	<0.05	-	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
FC060	FC060_2-2.1	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC060	FC060_3-3.1	Fill_SAND	JBS&G 2014	403941	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC060	FC060_3-3.1	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC061	FC061_1-1.1	Fill_SAND	JBS&G 2014	403941	<0.05	-	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
FC061	FC061_1-1.1	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC061	FC061_3-3.1	Fill_SAND	JBS&G 2014	403941	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC061	FC061_3-3.1	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC062	FC062_0.1-0.2	Fill_SAND	JBS&G 2014	405422	<0.05	-	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
FC062	FC062_0.1-0.2	Fill_SAND	JBS&G 2014	406078	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC062	QC05	Fill_SAND	JBS&G 2014	405422	<0.05	-	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
FC062	QC05-A	Fill_SAND	JBS&G 2014	103460	<0.1	-	<0.1	<0.1	<0.1	<0.1	0.1	-	<0.1	<0.1	<0.1	0.15	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	-
FC062	FC062_3.8-4	Fill_CLAY	JBS&G 2014	405422	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC063	FC063_1.6-1.8	Fill_SAND	JBS&G 2014	405422	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC063	FC063_1.6-1.8	Fill_SAND	JBS&G 2014	406078	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC063	FC063_3.8-4	Fill_SAND	JBS&G 2014	405422	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC064	FC064_0.1-0.2	Fill_SAND	JBS&G 2014	405524	<0.05	-	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
FC064	FC064_0.1-0.2	Fill_SAND	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC064	FC064_0.5-0.7	Fill_GRAVEL	JBS&G 2014	405524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC064	FC064_3.1-3.3	Fill_SAND	JBS&G 2014	405524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC064	FC064_3.1-3.3	Fill_SAND	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC064	FC064_4.7-4.9	Fill_CLAY	JBS&G 2014	405524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC065	FC065_0.1-0.2	Fill_SAND	JBS&G 2014	405524	<0.05	-	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
FC065	FC065_0.5-0.7	Fill_CLAY	JBS&G 2014	405524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC065	FC065_0.5-0.7	Fill_CLAY	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC065	FC065_1-1.2	Fill_CLAY	JBS&G 2014	405524	<0.05	-	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
FC065	FC065_1-1.2	Fill_CLAY	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC065	FC065_2.3-2.5	Fill_CLAY	JBS&G 2014	405524	<0.05	-	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
FC065	FC065_2.3-2.5	Fill_CLAY	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC065	FC065_3-3.2	Fill_SAND	JBS&G 2014	405524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC066	FC066_0.5-0.7	Fill_SAND	JBS&G 2014	405524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC066	FC066_0.5-0.7	Fill_SAND	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC066	FC066_1.5-1.7	Fill_SAND	JBS&G 2014	405524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC066	FC066_1.5-1.7	Fill_SAND	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC066	FC066_2.5-2.7	Fill_SAND	JBS&G 2014	405524	<0.05	-	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
FC066	FC066_2.5-2.7	Fill_SAND	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC066	FC066_3.1-3.3	Fill_SAND	JBS&G 2014	405524	<0.05	-	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
FC067	FC067_0.5-0.6	Fill_SAND	JBS&G 2014	405524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC067	FC067_0.5-0.6	Fill_SAND	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC067	FC067_0.9-1.1	Fill_GRAVEL	JBS&G 2014	405524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC067	FC067_3.1-3.3	Fill_SAND	JBS&G 2014	405524	<0.05	-	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
FC068	FC068_0.1-0.2	Fill_SAND	JBS&G 2014	405524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC068	FC068_0.1-0.2	Fill_SAND	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC068	FC068_1.1-1.3	Fill_CLAY	JBS&G 2014	405524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC068	FC068_1.1-1.3	Fill_CLAY	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC068	FC068_4.8-5	Fill_CLAY	JBS&G 2014	405524	<0.05	-	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
FC068	FC068_4.8-5	Fill_CLAY	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC069	FC069_6-6.1	Fill_SAND	JBS&G 2014	405819	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC069	FC069_6-6.1	Fill_SAND	JBS&G 2014	406432	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC069	FC069_8-8.1	SAND	JBS&G 2014	405819	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC069	FC069_8-8.1	SAND	JBS&G 2014	406432	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC070	FC070_0.1-0.2	Fill_SAND	JBS&G 2014	405454	<0.05	-	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
FC070	FC070_0.1-0.2	Fill_SAND	JBS&G 2014	406249	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC070	FC070_0.5-0.6	Fill_SAND	JBS&G 2014	405454	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC070	FC070_0.5-0.6	Fill_SAND	JBS&G 2014	406249	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC070	FC070_6-6.1	Fill_SAND	JBS&G 2014	405819	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC070	QC18	Fill_SAND	JBS&G 2014	405819	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC070	QC18-A	Fill_SAND	JBS&G 2014	103629	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC071	FC071_0.5-0.8	Fill_SAND	JBS&G 2014	405454	<0.05	-	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
FC071	FC071_0.5-0.8	Fill_SAND	JBS&G 2014	406249	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC071	FC071_2.8-3	Fill_SAND	JBS&G 2014	405454	<0.05	-	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1

Table A - Soil
Project Number: 69329
Project Name: SSDA Stage 3, 960A Bourke Street, Zetland

	Organochlorine Pesticides																								
	a-BHC	b-BHC	d-BHC	g-BHC (Lindane)	Aldrin	Dieldrin	Aldrin + Dieldrin	Chlordane	Chlordane (cis)	DDE	DDD	DDT+DDE+DDD	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	gamma-Chlordane	Heptachlor	Heptachlor Epoxide	Hexachlorobenzene	Methoxychlor	Toxaphene
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL																								
NEPM 2013 Table 1A(1) HILs Res B Soil							10	90				600				20				10		15	500	30
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay																								
>=0m, <1m																								
>=1m, <2m																								
>=2m, <4m																								
>=4m																								
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand																								
>=0m, <1m																								
>=1m, <2m																								
>=2m, <4m																								
>=4m																								
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																								
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																								
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																								
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																								
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																								

Location Code	Field ID	Matrix Description	Date	Lab Report Number																							
FC071	FC071_2.8-3	Fill_SAND	JBS&G 2014	406249	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC071	FC071_4.8-5	Fill_SAND	JBS&G 2014	405454	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC071	FC071_4.8-5	Fill_SAND	JBS&G 2014	406249	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC071	FC071_6-6.1	Fill_SAND	JBS&G 2014	405819	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC071	FC071_6-6.1	Fill_SAND	JBS&G 2014	406432	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC071	FC071_8-8.1	Fill_SAND	JBS&G 2014	405819	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC072	FC072_0.4-0.6	Fill_SAND	JBS&G 2014	405454	<0.05	-	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
FC072	FC072_1.5-0.7	Fill_CLAY	JBS&G 2014	405454	<0.05	-	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
FC072	FC072_2.9-3.1	Fill_CLAY	JBS&G 2014	405454	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC072	FC072_6-6.1	Fill_CLAY	JBS&G 2014	405819	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC072	FC072_6-6.1	Fill_CLAY	JBS&G 2014	406432	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I3	I3_3.9-4	Fill - SAND	04 Feb 2011	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I3	I3_5.4-5.5	Fill - CLAY	04 Feb 2011	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R31	R31_0.5-0.6	Fill - SAND	04 Feb 2011	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R32	R32_0.5-0.6	Fill - SAND	03 Feb 2011	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R32	R32_2-2.1	Fill - SAND	03 Feb 2011	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R33	R33_1.5-1.6	Fill - SAND	04 Feb 2011	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Comments
#1 Arsenic: HIL assumes 70% oral bioavailability. Site-specific bioavailability maybe important and should be considered where appropriate (refer Shedule B7).
#2 Trigger Value adopted from Chromium (VI)
#3 Lead: HILs A,B,C based on blood lead models (IEUBK & HIL D on adult lead model for where 50% bioavailability considered. Site-specific bioavailability should be considered where appropriate.

#4 Elemental mercury: HIL does not address elemental mercury. a site specific assessment should be considered if elemental mercury is present, or suspected to be present.

#5 Carcinogenic PAHs: HIL based on 8 carc. PAHs & their TEFs (rel to BaP ref Schedule 7) BaP TEQ calc by multiplying the conc of each carc. PAH in sample by its BaP TEF (ref Table 1A(1)) & summing

#6 Total PAHs: Based on sum of 16 most common reported (WHO 98). HIL application should consider presence of carcinogenic PAHs (should meet BaP TEQ HIL) & napthalene (should meet relevant HSL)

#7 PCBs: HIL refers to non-dioxin like PCBs only. Where PCB source is known, or suspected at a site, a site-specific assessment of exposure to all PCBs (inc dioxin like PCBs) should be undertaken
#8 Derived soil HSL exceeds soil saturation concentraiton. To obtain F1 subtract the sum of BTEX concentrations from the C6 - C10 fraction.
#9 Derived soil HSL exceeds soil saturation concentraiton. To obtain F2 subtract naphthalene from the >C10-C16 fraction
#10 Derived soil HSL exceeds soil saturation concentraiton

#11 Aged values apply to arsenic contamination present in soil > 2 years. Refer Schedule B5c for < 2 years.
#12 Trigger Value taken for Chromium (III), Clay Content of 1%
#13 Trigger Value taken for pH 4.5
#14 Trigger Value taken for CEC 5
#15 Trigger Value taken for pH 4 and CEC 5
#16 ESLs are of low reliability.
#17 ESLs are of moderate reliability. To obtain F1 subtract the sum of BTEX concentrations from the C6 - C10

#18 ESLs are of moderate reliability. To obtain F2 subtract napthalene from the >C10 - C16 fraction.
#19 Separate management limits for BTEX & naphthalene are not available hence should not be subtracted from the relevant fractions to obtain F1 & F2

#20 Ecological Investigation Levels (EIL) for B(a)P in residential land uses (CRCCare 2017)

Environmental Standards
NEPM, NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil
NEPM, NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil

Table A - Soil
Project Number: 69329
Project Name: SSDA Stage 3, 960A Bourke Street, Zetland

					Chlorinated Alkanes																Chlorinated Alkenes									
					1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,2,3-trichloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	Carbon tetrachloride	Chloroethane	Chloromethane	Dichlorodifluoromethane	Dichloromethane	Trichlorofluoromethane	Vinyl Chloride	1,1-dichloroethene	4-chlorotoluene	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Trichloroethene
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL																														
NEPM 2013 Table 1A(1) HILs Res B Soil																														
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NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																														
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Location Code	**Field ID**	**Matrix Description**	**Date**	**Lab Report Number**																										
BH10	BH10_4.3-4.5	Fill - SAND	May 2007	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH10	BH10_7-7.5	Fill - CLAY	May 2007	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH13	BH13_0.3-0.4	Fill - SAND	May 2007	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH13	BH13_7.6-8	Fill - SAND	May 2007	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH7	BH7_0.2-0.4	Fill - SAND	May 2007	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH7	BH7_8.8-9	Fill - SAND	May 2007	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH8	BH8_0.1-0.2	Fill - GRAVEL	May 2007	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH8	BH8_6-6.5	Fill - CLAY	May 2007	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14	BH14_2-2.1	Fill - SAND	07 Feb 2011	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14	BH14_5-5.1	Fill - CLAY	08 Feb 2011	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14	BH14_8.2-8.3	Fill - SAND	08 Feb 2011	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH500	BH500_0.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH500	BH500_2.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH500	QA20220217_PG6	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH500	QC20220217-PG6	Fill - SAND	17 Feb 2022	289593	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH500	BH500_3.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH500	BH500_5.0	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH500	BH500_6.5	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH500	BH500_8.0	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH500	BH500_9.5	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH500	BH500_11.0	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH501	BH501_1.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH501	BH501_2.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH501	BH501_4.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH501	QA20220217_PG5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH501	QC20220217-PG5	Fill - SAND	17 Feb 2022	289593	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH501	BH501_5.5	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH501	BH501_7.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH501	BH501_8.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH501	BH501_10.0	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH501	BH501_11.5	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH502	BH502_1.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH502	BH502_2.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH502	BH502_3.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH502	BH502_5.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH502	BH502_6.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH502	BH502_8.0	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH502	BH502_9.5	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH502	BH502_11.0	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH502	BH502_12.5	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH503	BH503_0.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH503	BH503_2.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH503	BH503_3.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH503	BH503_5.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH503	BH503_6.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH503	BH503_8.0	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH503	BH503_9.5	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH503	BH503_11.0	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH503	BH503_12.5	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH504	BH504_0.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH504	QA20220217_PG2	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH504	QC20220217-PG2	Fill - SAND	17 Feb 2022	289593	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH504	BH504_2.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH504	BH504_3.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH504	QA20220217_PG3	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH504	QC20220217-PG3	Fill - SAND	17 Feb 2022	289593	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH504	BH504_4.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH504	BH504_6.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH504	BH504_7.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH504	BH504_9.0	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH504	BH504_10.5	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH504	BH504_12.0	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH505	BH505_1.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH505	BH505_3.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH505	QA20220217_PG4	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH505	QC20220217-PG4	Fill - SAND	17 Feb 2022	289593	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH505	BH505_4.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH505	BH505_6.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH505	BH505_7.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH505	BH505_9.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH505	BH505_10.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH505	BH505_11.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH506	BH506_1.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table A - Soil
Project Number: 69329
Project Name: SSDA Stage 3, 960A Bourke Street, Zetland

					Chlorinated Alkanes																Chlorinated Alkenes									
					1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,2,3-trichloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	Carbon tetrachloride	Chloroethane	Chloromethane	Dichlorodifluoromethane	Dichloromethane	Trichlorofluoromethane	Vinyl Chloride	1,1-dichloroethene	4-chlorotoluene	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Trichloroethene
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL																														
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NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand																														
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NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																														
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																														
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																														
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																														
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																														
Location Code	**Field ID**	**Matrix Description**	**Date**	**Lab Report Number**																										
BH506	BH506_2.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH506	BH506_4.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH506	BH506_5.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH506	BH506_6.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH506	BH506_8.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH506	BH506_9.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH507	BH507_0.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH507	BH507_1.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH507	QA20220217_PG1	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH507	QC20220217-PG1	Fill - SAND	17 Feb 2022	289593	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH507	BH507_3.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH507	BH507_4.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH507	BH507_6.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH507	BH507_7.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH507	BH507_9.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH507	BH507_10.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH507	BH507_12.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH508	BH508_0.5	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH508	BH508_2.0	Fill - GRAVEL	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH508	BH508_3.5	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH508	BH508_4.5	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH508	BH508_6.0	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH508	BH508_7.0	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH509	BH509_0.5	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH509	BH509_2.0	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH509	BH509_2.5	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH509	QA20220218PG3	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH509	QC20220218-PG3	Fill - SAND	18 Feb 2022	289684	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH509	BH509_3.5	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH509	BH509_5.0	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH509	BH509_6.5	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH509	BH509_7.5	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH510	BH510_1.0	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH510	BH510_2.5	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH510	BH510_4.0	Fill - CLAY	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH510	BH510_5.5	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH510	BH510_7.0	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH510	BH510_8.0	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH511	BH511_0.5	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH511	BH511_2.0	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH511	BH511_3.5	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH511	BH511_5.0	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH511	BH511_6.5	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH511	BH511_8.0	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH512	BH512_0.5	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH512	BH512_2.0	Fill - CLAY	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH512	QA20220218PG1	Fill - CLAY	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH512	QC20220218-PG1	Fill - CLAY	18 Feb 2022	289684	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH512	BH512_2.5	Fill - CLAY	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH512	BH512_3.5	Fill - GRAVEL	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH512	BH512_4.5	Fill - GRAVEL	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH512	BH512_5.5	Fill - GRAVEL	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP3	BHP3_0.5-0.6	Fill_SAND	01 Feb 2011	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP3	BHP3_2-2.1	Fill_CLAY	01 Feb 2011	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP3	BHP3_5.5-5.6	SAND	01 Feb 2011	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC053	FC053_0-0.1	Fill_SAND	JBS&G 2014	403832	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC053	FC053_0-0.1	Fill_SAND	JBS&G 2014	404625	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC053	FC053_2-2.1	Fill_SAND	JBS&G 2014	403832	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC053	FC053_2-2.1	Fill_SAND	JBS&G 2014	404625	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC054	FC054_0.5	Fill_SAND	JBS&G 2014	403832	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC054	FC054_1-1.1	Fill_SAND	JBS&G 2014	403832	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC055	FC055_0-0.1	Fill_SAND	JBS&G 2014	403832	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC055	FC055_0-0.1	Fill_SAND	JBS&G 2014	404625	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC055	QC01	Fill_SAND	JBS&G 2014	403832	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC055	QC01	Fill_SAND	JBS&G 2014	404625	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC055	QC01-A	Fill_SAND	JBS&G 2014	102718	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC055	FC055_1-1.1	Fill_SAND	JBS&G 2014	403832	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC055	FC055_1-1.1	Fill_SAND	JBS&G 2014	404625	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC055	FC055_4-4.1	Fill_SAND	JBS&G 2014	403832	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC055	FC055_4-4.1	Fill_SAND	JBS&G 2014	404625	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC056	FC056_2-2.1	Fill_SAND	JBS&G 2014	403832	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC056	FC056_3-3.1	Fill_SAND	JBS&G 2014	403832	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC057	FC057_0-0.1	Fill_SAND	JBS&G 2014	403941	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC057	FC057_0-0.1	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table A - Soil
Project Number: 69329
Project Name: SSDA Stage 3, 960A Bourke Street, Zetland

																		Chlorinated Alkanes										Chlorinated Alkenes									
																		1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,2,3-trichloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	Carbon tetrachloride	Chloroethane	Chloromethane	Dichlorodifluoromethane	Dichloromethane	Trichlorofluoromethane	Vinyl Chloride	1,1-dichloroethene	4-chlorotoluene	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Trichloroethene
																		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL																														
NEPM 2013 Table 1A(1) HILs Res B Soil																														
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay																														
>=0m, <1m																														
>=1m, <2m																														
>=2m, <4m																														
>=4m																														
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand																														
>=0m, <1m																														
>=1m, <2m																														
>=2m, <4m																														
>=4m																														
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																														
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																														
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																														
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																														
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																														

Location Code	Field ID	Matrix Description	Date	Lab Report Number																										
FC057	FC057_2-2.1	Fill_SAND	JBS&G 2014	403941	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC058	FC058_0.5-0.6	Fill_SAND	JBS&G 2014	403941	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC058	FC058_0.5-0.6	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC058	QC02	Fill_SAND	JBS&G 2014	403941	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC058	QC02	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC058	QC02-A	Fill_SAND	JBS&G 2014	102801	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC058	FC058_5-5.1	Fill_SAND	JBS&G 2014	403941	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC058	FC058_5-5.1	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC059	FC059_0.5-0.6	Fill_SAND	JBS&G 2014	403941	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC059	FC059_0.5-0.6	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC059	FC059_1-1.1	Fill_SAND	JBS&G 2014	403941	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC059	FC059_1-1.1	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC060	FC060_1-1.1	Fill_SAND	JBS&G 2014	403941	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC060	FC060_2-2.1	Fill_SAND	JBS&G 2014	403941	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC060	FC060_2-2.1	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC060	FC060_3-3.1	Fill_SAND	JBS&G 2014	403941	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC060	FC060_3-3.1	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC061	FC061_1-1.1	Fill_SAND	JBS&G 2014	403941	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC061	FC061_1-1.1	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC061	FC061_3-3.1	Fill_SAND	JBS&G 2014	403941	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC061	FC061_3-3.1	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC062	FC062_0.1-0.2	Fill_SAND	JBS&G 2014	405422	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC062	FC062_0.1-0.2	Fill_SAND	JBS&G 2014	406078	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC062	QC05	Fill_SAND	JBS&G 2014	405422	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC062	QC05-A	Fill_SAND	JBS&G 2014	103460	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC062	FC062_3.8-4	Fill_CLAY	JBS&G 2014	405422	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC063	FC063_1.6-1.8	Fill_SAND	JBS&G 2014	405422	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC063	FC063_1.6-1.8	Fill_SAND	JBS&G 2014	406078	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC063	FC063_3.8-4	Fill_SAND	JBS&G 2014	405422	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC064	FC064_0.1-0.2	Fill_SAND	JBS&G 2014	405524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC064	FC064_0.1-0.2	Fill_SAND	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC064	FC064_0.5-0.7	Fill_GRAVEL	JBS&G 2014	405524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC064	FC064_3.1-3.3	Fill_SAND	JBS&G 2014	405524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC064	FC064_3.1-3.3	Fill_SAND	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC064	FC064_4.7-4.9	Fill_CLAY	JBS&G 2014	405524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC065	FC065_0.1-0.2	Fill_SAND	JBS&G 2014	405524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC065	FC065_0.5-0.7	Fill_CLAY	JBS&G 2014	405524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC065	FC065_0.5-0.7	Fill_CLAY	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC065	FC065_1-1.2	Fill_CLAY	JBS&G 2014	405524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC065	FC065_1-1.2	Fill_CLAY	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC065	FC065_2.3-2.5	Fill_CLAY	JBS&G 2014	405524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC065	FC065_2.3-2.5	Fill_CLAY	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC065	FC065_3-3.2	Fill_SAND	JBS&G 2014	405524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC066	FC066_0.5-0.7	Fill_SAND	JBS&G 2014	405524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC066	FC066_0.5-0.7	Fill_SAND	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC066	FC066_1.5-1.7	Fill_SAND	JBS&G 2014	405524	<0.05	<0.05	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
FC066	FC066_1.5-1.7	Fill_SAND	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC066	FC066_2.5-2.7	Fill_SAND	JBS&G 2014	405524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC066	FC066_2.5-2.7	Fill_SAND	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC066	FC066_3.1-3.3	Fill_SAND	JBS&G 2014	405524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC067	FC067_0.5-0.6	Fill_SAND	JBS&G 2014	405524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC067	FC067_0.5-0.6	Fill_SAND	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC067	FC067_0.9-1.1	Fill_GRAVEL	JBS&G 2014	405524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC067	FC067_3.1-3.3	Fill_SAND	JBS&G 2014	405524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC068	FC068_0.1-0.2	Fill_SAND	JBS&G 2014	405524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC068	FC068_0.1-0.2	Fill_SAND	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC068	FC068_1.1-1.3	Fill_CLAY	JBS&G 2014	405524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC068	FC068_1.1-1.3	Fill_CLAY	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC068	FC068_4.8-5	Fill_CLAY	JBS&G 2014	405524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC068	FC068_4.8-5	Fill_CLAY	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC069	FC069_6-6.1	Fill_SAND	JBS&G 2014	405819	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC069	FC069_6-6.1	Fill_SAND	JBS&G 2014	406432	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC069	FC069_8-8.1	SAND	JBS&G 2014	405819	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC069	FC069_8-8.1	SAND	JBS&G 2014	406432	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC070	FC070_0.1-0.2	Fill_SAND	JBS&G 2014	405454	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC070	FC070_0.1-0.2	Fill_SAND	JBS&G 2014	406249	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC070	FC070_0.5-0.6	Fill_SAND	JBS&G 2014	405454	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC070	FC070_0.5-0.6	Fill_SAND	JBS&G 2014	406249	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC070	FC070_6-6.1	Fill_SAND	JBS&G 2014	405819	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC070	QC18	Fill_SAND	JBS&G 2014	405819	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC070	QC18-A	Fill_SAND	JBS&G 2014	103629	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC071	FC071_0.5-0.8	Fill_SAND	JBS&G 2014	405454	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC071	FC071_0.5-0.8	Fill_SAND	JBS&G 2014	406249	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC071	FC071_2.8-3	Fill_SAND	JBS&G 2014	405454	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table A - Soil
Project Number: 69329
Project Name: SSDA Stage 3, 960A Bourke Street, Zetland

	Chlorinated Alkanes															Chlorinated Alkenes								
	1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,2,3-trichloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	Carbon tetrachloride	Chloroethane	Chloromethane	Dichlorodifluoromethane	Dichloromethane	Trichlorofluoromethane	Vinyl Chloride	1,1-dichloroethene	4-chlorotoluene	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Trichloroethene
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL																								
NEPM 2013 Table 1A(1) HILs Res B Soil																								
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay																								
>=0m, <1m																								
>=1m, <2m																								
>=2m, <4m																								
>=4m																								
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand																								
>=0m, <1m																								
>=1m, <2m																								
>=2m, <4m																								
>=4m																								
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																								
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																								
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																								
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																								
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																								

Location Code	Field ID	Matrix Description	Date	Lab Report Number																						
FC071	FC071_2.8-3	Fill_SAND	JBS&G 2014	406249	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC071	FC071_4.8-5	Fill_SAND	JBS&G 2014	405454	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC071	FC071_4.8-5	Fill_SAND	JBS&G 2014	406249	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC071	FC071_6-6.1	Fill_SAND	JBS&G 2014	405819	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC071	FC071_6-6.1	Fill_SAND	JBS&G 2014	406432	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC071	FC071_8-8.1	Fill_SAND	JBS&G 2014	405819	<0.05	<0.05	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
FC072	FC072_0.4-0.6	Fill_SAND	JBS&G 2014	405454	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC072	FC072_1.5-0.7	Fill_CLAY	JBS&G 2014	405454	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC072	FC072_2.9-3.1	Fill_CLAY	JBS&G 2014	405454	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC072	FC072_6-6.1	Fill_CLAY	JBS&G 2014	405819	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC072	FC072_6-6.1	Fill_CLAY	JBS&G 2014	406432	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I3	I3_3.9-4	Fill - SAND	04 Feb 2011	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I3	I3_5.4-5.5	Fill - CLAY	04 Feb 2011	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R31	R31_0.5-0.6	Fill - SAND	04 Feb 2011	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R32	R32_0.5-0.6	Fill - SAND	03 Feb 2011	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R32	R32_2-2.1	Fill - SAND	03 Feb 2011	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R33	R33_1.5-1.6	Fill - SAND	04 Feb 2011	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Comments
#1 Arsenic: HIL assumes 70% oral bioavailability. Site-specific bioavailability maybe important and should be considered where appropriate (refer Shedule B7).
#2 Trigger Value adopted from Chromium (VI)
#3 Lead: HILs A,B,C based on blood lead models (IEUBK & HIL D on adult lead model for where 50% bioavailability considered. Site-specific bioavailability should be considered where appropriate.

#4 Elemental mercury: HIL does not address elemental mercury. a site specific assessment should be considered if elemental mercury is present, or suspected to be present.

#5 Carcinogenic PAHs: HIL based on 8 carc. PAHs & their TEFs (rel to BaP ref Schedule 7) BaP TEQ calc by multiplying the conc of each carc. PAH in sample by its BaP TEF (ref Table 1A(1)) & summing

#6 Total PAHs: Based on sum of 16 most common reported (WHO 98). HIL application should consider presence of carcinogenic PAHs (should meet BaP TEQ HIL) & napthalene (should meet relevant HSL)

#7 PCBs: HIL refers to non-dioxin like PCBs only. Where PCB source is known, or suspected at a site, a site-specific assessment of exposure to all PCBs (inc dioxin like PCBs) should be undertaken
#8 Derived soil HSL exceeds soil saturation concentraiton. To obtain F1 subtract the sum of BTEX concentrations from the C6 - C10 fraction.
#9 Derived soil HSL exceeds soil saturation concentraiton. To obtain F2 subtract naphthalene from the >C10-C16 fraction
#10 Derived soil HSL exceeds soil saturation concentraiton

#11 Aged values apply to arsenic contamination present in soil > 2 years. Refer Schedule B5c for < 2 years.
#12 Trigger Value taken for Chromium (III), Clay Content of 1%
#13 Trigger Value taken for pH 4.5
#14 Trigger Value taken for CEC 5
#15 Trigger Value taken for pH 4 and CEC 5
#16 ESLs are of low reliability.
#17 ESLs are of moderate reliability. To obtain F1 subtract the sum of BTEX concentrations from the C6 - C10

#18 ESLs are of moderate reliability. To obtain F2 subtract napthalene from the >C10 - C16 fraction.
#19 Separate management limits for BTEX & naphthalene are not available hence should not be subtracted from the relevant fractions to obtain F1 & F2

#20 Ecological Investigation Levels (EIL) for B(a)P in residential land uses (CRCCare 2017)

Environmental Standards
NEPM, NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil
NEPM, NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil

Table A - Soil
Project Number: 69329
Project Name: SSDA Stage 3, 960A Bourke Street, Zetland

	Polychlorinated Biphenyls								MAH										Miscellaneous Hydrocarbons						
	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	PCBs (Sum of total)	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	n-butylbenzene	n-propylbenzene	p-isopropyltoluene	sec-butylbenzene	Styrene	tert-butylbenzene	Bromobenzene	Isopropylbenzene	1,2-dibromoethane	Bromomethane	Cyclohexane	Dibromomethane	Iodomethane	4-Methyl-2-pentanone	Methyl Ethyl Ketone
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL																									
NEPM 2013 Table 1A(1) HILs Res B Soil								1[87]																	
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay																									
>=0m, <1m																									
>=1m, <2m																									
>=2m, <4m																									
>=4m																									
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand																									
>=0m, <1m																									
>=1m, <2m																									
>=2m, <4m																									
>=4m																									
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																									
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																									
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																									
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																									
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																									

Location Code	Field ID	Matrix Description	Date	Lab Report Number																								
BH10	BH10_4.3-4.5	Fill - SAND	May 2007	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH10	BH10_7-7.5	Fill - CLAY	May 2007	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH13	BH13_0.3-0.4	Fill - SAND	May 2007	HLA 2007	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH13	BH13_7.6-8	Fill - SAND	May 2007	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH7	BH7_0.2-0.4	Fill - SAND	May 2007	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH7	BH7_8.8-9	Fill - SAND	May 2007	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH8	BH8_0.1-0.2	Fill - GRAVEL	May 2007	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH8	BH8_6-6.5	Fill - CLAY	May 2007	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14	BH14_2-2.1	Fill - SAND	07 Feb 2011	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14	BH14_5-5.1	Fill - CLAY	08 Feb 2011	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14	BH14_8.2-8.3	Fill - SAND	08 Feb 2011	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH500	BH500_0.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH500	BH500_2.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH500	QA20220217_PG6	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH500	QC20220217-PG6	Fill - SAND	17 Feb 2022	289593	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH500	BH500_3.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH500	BH500_5.0	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH500	BH500_6.5	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH500	BH500_8.0	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH500	BH500_9.5	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH500	BH500_11.0	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH501	BH501_1.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH501	BH501_2.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH501	BH501_4.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH501	QA20220217_PG5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH501	QC20220217-PG5	Fill - SAND	17 Feb 2022	289593	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH501	BH501_5.5	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH501	BH501_7.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH501	BH501_8.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH501	BH501_10.0	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH501	BH501_11.5	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH502	BH502_1.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH502	BH502_2.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH502	BH502_3.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH502	BH502_5.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH502	BH502_6.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH502	BH502_8.0	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH502	BH502_9.5	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH502	BH502_11.0	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH502	BH502_12.5	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH503	BH503_0.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH503	BH503_2.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH503	BH503_3.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH503	BH503_5.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH503	BH503_6.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH503	BH503_8.0	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH503	BH503_9.5	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH503	BH503_11.0	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH503	BH503_12.5	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH504	BH504_0.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH504	QA20220217_PG2	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH504	QC20220217-PG2	Fill - SAND	17 Feb 2022	289593	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH504	BH504_2.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH504	BH504_3.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH504	QA20220217_PG3	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH504	QC20220217-PG3	Fill - SAND	17 Feb 2022	289593	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH504	BH504_4.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH504	BH504_6.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH504	BH504_7.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH504	BH504_9.0	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH504	BH504_10.5	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH504	BH504_12.0	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH505	BH505_1.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH505	BH505_3.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH505	QA20220217_PG4	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH505	QC20220217-PG4	Fill - SAND	17 Feb 2022	289593	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH505	BH505_4.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH505	BH505_6.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH505	BH505_7.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH505	BH505_9.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH505	BH505_10.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH505	BH505_11.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH506	BH506_1.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table A - Soil
Project Number: 69329
Project Name: SSDA Stage 3, 960A Bourke Street, Zetland

	Polychlorinated Biphenyls								MAH										Miscellaneous Hydrocarbons						
	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	PCBs (Sum of total)	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	n-butylbenzene	n-propylbenzene	p-isopropyltoluene	sec-butylbenzene	Styrene	tert-butylbenzene	Bromobenzene	Isopropylbenzene	1,2-dibromoethane	Bromomethane	Cyclohexane	Dibromomethane	Iodomethane	4-Methyl-2-pentanone	Methyl Ethyl Ketone
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL																									
NEPM 2013 Table 1A(1) HILs Res B Soil								1[87]																	
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay																									
>=0m, <1m																									
>=1m, <2m																									
>=2m, <4m																									
>=4m																									
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand																									
>=0m, <1m																									
>=1m, <2m																									
>=2m, <4m																									
>=4m																									
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																									
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																									
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																									
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																									
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																									

Location Code	Field ID	Matrix Description	Date	Lab Report Number																								
BH506	BH506_2.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH506	BH506_4.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH506	BH506_5.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH506	BH506_6.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH506	BH506_8.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH506	BH506_9.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH507	BH507_0.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH507	BH507_1.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH507	QA20220217_PG1	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH507	QC20220217-PG1	Fill - SAND	17 Feb 2022	289593	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH507	BH507_3.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH507	BH507_4.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH507	BH507_6.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH507	BH507_7.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH507	BH507_9.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH507	BH507_10.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH507	BH507_12.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH508	BH508_0.5	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH508	BH508_2.0	Fill - GRAVEL	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH508	BH508_3.5	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH508	BH508_4.5	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH508	BH508_6.0	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH508	BH508_7.0	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH509	BH509_0.5	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH509	BH509_2.0	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH509	BH509_2.5	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH509	QA20220218PG3	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH509	QC20220218-PG3	Fill - SAND	18 Feb 2022	289684	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH509	BH509_3.5	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH509	BH509_5.0	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH509	BH509_6.5	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH509	BH509_7.5	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH510	BH510_1.0	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH510	BH510_2.5	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH510	BH510_4.0	Fill - CLAY	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH510	BH510_5.5	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH510	BH510_7.0	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH510	BH510_8.0	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH511	BH511_0.5	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH511	BH511_2.0	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH511	BH511_3.5	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH511	BH511_5.0	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH511	BH511_6.5	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH511	BH511_8.0	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH512	BH512_0.5	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH512	BH512_2.0	Fill - CLAY	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH512	QA20220218PG1	Fill - CLAY	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH512	QC20220218-PG1	Fill - CLAY	18 Feb 2022	289684	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH512	BH512_2.5	Fill - CLAY	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH512	BH512_3.5	Fill - GRAVEL	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH512	BH512_4.5	Fill - GRAVEL	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH512	BH512_5.5	Fill - GRAVEL	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP3	BHP3_0.5-0.6	Fill_SAND	01 Feb 2011	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP3	BHP3_2-2.1	Fill_CLAY	01 Feb 2011	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP3	BHP3_5.5-5.6	SAND	01 Feb 2011	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC053	FC053_0-0.1	Fill_SAND	JBS&G 2014	403832	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC053	FC053_0-0.1	Fill_SAND	JBS&G 2014	404625	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC053	FC053_2-2.1	Fill_SAND	JBS&G 2014	403832	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC053	FC053_2-2.1	Fill_SAND	JBS&G 2014	404625	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC054	FC054_0.5	Fill_SAND	JBS&G 2014	403832	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC054	FC054_1-1.1	Fill_SAND	JBS&G 2014	403832	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC055	FC055_0-0.1	Fill_SAND	JBS&G 2014	403832	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC055	FC055_0-0.1	Fill_SAND	JBS&G 2014	404625	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC055	QC01	Fill_SAND	JBS&G 2014	403832	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC055	QC01	Fill_SAND	JBS&G 2014	404625	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC055	QC01-A	Fill_SAND	JBS&G 2014	102718	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC055	FC055_1-1.1	Fill_SAND	JBS&G 2014	403832	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC055	FC055_1-1.1	Fill_SAND	JBS&G 2014	404625	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC055	FC055_4-4.1	Fill_SAND	JBS&G 2014	403832	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC055	FC055_4-4.1	Fill_SAND	JBS&G 2014	404625	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC056	FC056_2-2.1	Fill_SAND	JBS&G 2014	403832	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC056	FC056_3-3.1	Fill_SAND	JBS&G 2014	403832	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC057	FC057_0-0.1	Fill_SAND	JBS&G 2014	403941	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC057	FC057_0-0.1	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table A - Soil
Project Number: 69329
Project Name: SSDA Stage 3, 960A Bourke Street, Zetland

	Polychlorinated Biphenyls								MAH										Miscellaneous Hydrocarbons						
	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	PCBs (Sum of total)	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	n-butylbenzene	n-propylbenzene	p-isopropyltoluene	sec-butylbenzene	Styrene	tert-butylbenzene	Bromobenzene	Isopropylbenzene	1,2-dibromoethane	Bromomethane	Cyclohexane	Dibromomethane	Iodomethane	4-Methyl-2-pentanone	Methyl Ethyl Ketone
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL																									
NEPM 2013 Table 1A(1) HILs Res B Soil								1[87]																	
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay																									
>=0m, <1m																									
>=1m, <2m																									
>=2m, <4m																									
>=4m																									
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand																									
>=0m, <1m																									
>=1m, <2m																									
>=2m, <4m																									
>=4m																									
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																									
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																									
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																									
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																									
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																									

Location Code	Field ID	Matrix Description	Date	Lab Report Number																								
FC057	FC057_2-2.1	Fill_SAND	JBS&G 2014	403941	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC058	FC058_0.5-0.6	Fill_SAND	JBS&G 2014	403941	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC058	FC058_0.5-0.6	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC058	QC02	Fill_SAND	JBS&G 2014	403941	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC058	QC02	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC058	QC02-A	Fill_SAND	JBS&G 2014	102801	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC058	FC058_5-5.1	Fill_SAND	JBS&G 2014	403941	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC058	FC058_5-5.1	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC059	FC059_0.5-0.6	Fill_SAND	JBS&G 2014	403941	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC059	FC059_0.5-0.6	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC059	FC059_1-1.1	Fill_SAND	JBS&G 2014	403941	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC059	FC059_1-1.1	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC060	FC060_1-1.1	Fill_SAND	JBS&G 2014	403941	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC060	FC060_2-2.1	Fill_SAND	JBS&G 2014	403941	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC060	FC060_2-2.1	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC060	FC060_3-3.1	Fill_SAND	JBS&G 2014	403941	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC060	FC060_3-3.1	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC061	FC061_1-1.1	Fill_SAND	JBS&G 2014	403941	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC061	FC061_1-1.1	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC061	FC061_3-3.1	Fill_SAND	JBS&G 2014	403941	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC061	FC061_3-3.1	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC062	FC062_0.1-0.2	Fill_SAND	JBS&G 2014	405422	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	<0.05	<0.05	-	-	-	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	-	<0.5	<0.05	<0.05	<0.05
FC062	FC062_0.1-0.2	Fill_SAND	JBS&G 2014	406078	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC062	QC05	Fill_SAND	JBS&G 2014	405422	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	<0.05	<0.05	-	-	-	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	-	<0.5	<0.05	<0.05	<0.05
FC062	QC05-A	Fill_SAND	JBS&G 2014	103460	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.35	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-
FC062	FC062_3.8-4	Fill_CLAY	JBS&G 2014	405422	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC063	FC063_1.6-1.8	Fill_SAND	JBS&G 2014	405422	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC063	FC063_1.6-1.8	Fill_SAND	JBS&G 2014	406078	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC063	FC063_3.8-4	Fill_SAND	JBS&G 2014	405422	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC064	FC064_0.1-0.2	Fill_SAND	JBS&G 2014	405524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC064	FC064_0.1-0.2	Fill_SAND	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC064	FC064_0.5-0.7	Fill_GRAVEL	JBS&G 2014	405524	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC064	FC064_3.1-3.3	Fill_SAND	JBS&G 2014	405524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC064	FC064_3.1-3.3	Fill_SAND	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC064	FC064_4.7-4.9	Fill_CLAY	JBS&G 2014	405524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC065	FC065_0.1-0.2	Fill_SAND	JBS&G 2014	405524	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC065	FC065_0.5-0.7	Fill_CLAY	JBS&G 2014	405524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC065	FC065_0.5-0.7	Fill_CLAY	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC065	FC065_1-1.2	Fill_CLAY	JBS&G 2014	405524	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC065	FC065_1-1.2	Fill_CLAY	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC065	FC065_2.3-2.5	Fill_CLAY	JBS&G 2014	405524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC065	FC065_2.3-2.5	Fill_CLAY	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC065	FC065_3-3.2	Fill_SAND	JBS&G 2014	405524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC066	FC066_0.5-0.7	Fill_SAND	JBS&G 2014	405524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC066	FC066_0.5-0.7	Fill_SAND	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC066	FC066_1.5-1.7	Fill_SAND	JBS&G 2014	405524	-	-	-	-	-	-	-	-	<0.05	<0.05	-	-	-	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	-	<0.5	<0.05	<0.05	<0.05
FC066	FC066_1.5-1.7	Fill_SAND	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC066	FC066_2.5-2.7	Fill_SAND	JBS&G 2014	405524	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC066	FC066_2.5-2.7	Fill_SAND	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC066	FC066_3.1-3.3	Fill_SAND	JBS&G 2014	405524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC067	FC067_0.5-0.6	Fill_SAND	JBS&G 2014	405524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC067	FC067_0.5-0.6	Fill_SAND	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC067	FC067_0.9-1.1	Fill_GRAVEL	JBS&G 2014	405524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC067	FC067_3.1-3.3	Fill_SAND	JBS&G 2014	405524	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC068	FC068_0.1-0.2	Fill_SAND	JBS&G 2014	405524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC068	FC068_0.1-0.2	Fill_SAND	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC068	FC068_1.1-1.3	Fill_CLAY	JBS&G 2014	405524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC068	FC068_1.1-1.3	Fill_CLAY	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC068	FC068_4.8-5	Fill_CLAY	JBS&G 2014	405524	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC068	FC068_4.8-5	Fill_CLAY	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC069	FC069_6-6.1	Fill_SAND	JBS&G 2014	405819	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC069	FC069_6-6.1	Fill_SAND	JBS&G 2014	406432	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC069	FC069_8-8.1	SAND	JBS&G 2014	405819	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC069	FC069_8-8.1	SAND	JBS&G 2014	406432	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC070	FC070_0.1-0.2	Fill_SAND	JBS&G 2014	405454	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC070	FC070_0.1-0.2	Fill_SAND	JBS&G 2014	406249	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC070	FC070_0.5-0.6	Fill_SAND	JBS&G 2014	405454	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC070	FC070_0.5-0.6	Fill_SAND	JBS&G 2014	406249	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC070	FC070_6-6.1	Fill_SAND	JBS&G 2014	405819	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC070	QC18	Fill_SAND	JBS&G 2014	405819	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC070	QC18-A	Fill_SAND	JBS&G 2014	103629	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC071	FC071_0.5-0.8	Fill_SAND	JBS&G 2014	405454	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC071	FC071_0.5-0.8	Fill_SAND	JBS&G 2014	406249	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC071	FC071_2.8-3	Fill_SAND	JBS&G 2014	405454	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table A - Soil
Project Number: 69329
Project Name: SSDA Stage 3, 960A Bourke Street, Zetland

	Polychlorinated Biphenyls								MAH										Miscellaneous Hydrocarbons						
	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	PCBs (Sum of total)	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	n-butylbenzene	n-propylbenzene	p-isopropyltoluene	sec-butylbenzene	Styrene	tert-butylbenzene	Bromobenzene	Isopropylbenzene	1,2-dibromoethane	Bromomethane	Cyclohexane	Dibromomethane	Iodomethane	4-Methyl-2-pentanone	Methyl Ethyl Ketone
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL																									
NEPM 2013 Table 1A(1) HILs Res B Soil								1[#7]																	
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay																									
>=0m, <1m																									
>=1m, <2m																									
>=2m, <4m																									
>=4m																									
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand																									
>=0m, <1m																									
>=1m, <2m																									
>=2m, <4m																									
>=4m																									
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																									
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																									
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																									
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																									
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																									

Location Code	Field ID	Matrix Description	Date	Lab Report Number																								
FC071	FC071_2.8-3	Fill_SAND	JBS&G 2014	406249	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC071	FC071_4.8-5	Fill_SAND	JBS&G 2014	405454	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC071	FC071_4.8-5	Fill_SAND	JBS&G 2014	406249	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC071	FC071_6-6.1	Fill_SAND	JBS&G 2014	405819	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC071	FC071_6-6.1	Fill_SAND	JBS&G 2014	406432	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC071	FC071_8-8.1	Fill_SAND	JBS&G 2014	405819	-	-	-	-	-	-	-	-	<0.05	<0.05	-	-	-	<0.05	-	<0.05	<0.05	<0.05	<0.05	-	<0.5	<0.05	<0.05	<0.05
FC072	FC072_0.4-0.6	Fill_SAND	JBS&G 2014	405454	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC072	FC072_1.5-0.7	Fill_CLAY	JBS&G 2014	405454	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC072	FC072_2.9-3.1	Fill_CLAY	JBS&G 2014	405454	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC072	FC072_6-6.1	Fill_CLAY	JBS&G 2014	405819	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC072	FC072_6-6.1	Fill_CLAY	JBS&G 2014	406432	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I3	I3_3.9-4	Fill - SAND	04 Feb 2011	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I3	I3_5.4-5.5	Fill - CLAY	04 Feb 2011	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R31	R31_0.5-0.6	Fill - SAND	04 Feb 2011	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R32	R32_0.5-0.6	Fill - SAND	03 Feb 2011	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R32	R32_2-2.1	Fill - SAND	03 Feb 2011	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R33	R33_1.5-1.6	Fill - SAND	04 Feb 2011	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Comments
#1 Arsenic: HIL assumes 70% oral bioavailability. Site-specific bioavailability maybe important and should be considered where appropriate (refer Shedule B7).
#2 Trigger Value adopted from Chromium (VI)
#3 Lead: HILs A,B,C based on blood lead models (IEUBK & HIL D on adult lead model for where 50% bioavailability considered. Site-specific bioavailability should be considered where appropriate.

#4 Elemental mercury: HIL does not address elemental mercury. a site specific assessment should be considered if elemental mercury is present, or suspected to be present.

#5 Carcinogenic PAHs: HIL based on 8 carc. PAHs & their TEFs (rel to BaP ref Schedule 7) BaP TEQ calc by multiplying the conc of each carc. PAH in sample by its BaP TEF (ref Table 1A(1)) & summing

#6 Total PAHs: Based on sum of 16 most common reported (WHO 98). HIL application should consider presence of carcinogenic PAHs (should meet BaP TEQ HIL) & napthalene (should meet relevant HSL)

#7 PCBs: HIL refers to non-dioxin like PCBs only. Where PCB source is known, or suspected at a site, a site-specific assessment of exposure to all PCBs (inc dioxin like PCBs) should be undertaken
#8 Derived soil HSL exceeds soil saturation concentraiton. To obtain F1 subtract the sum of BTEX concentrations from the C6 - C10 fraction.
#9 Derived soil HSL exceeds soil saturation concentraiton. To obtain F2 subtract naphthalene from the >C10-C16 fraction
#10 Derived soil HSL exceeds soil saturation concentraiton

#11 Aged values apply to arsenic contamination present in soil > 2 years. Refer Schedule B5c for < 2 years.
#12 Trigger Value taken for Chromium (III), Clay Content of 1%
#13 Trigger Value taken for pH 4.5
#14 Trigger Value taken for CEC 5
#15 Trigger Value taken for pH 4 and CEC 5
#16 ESLs are of low reliability.
#17 ESLs are of moderate reliability. To obtain F1 subtract the sum of BTEX concentrations from the C6 - C10

#18 ESLs are of moderate reliability. To obtain F2 subtract napthalene from the >C10 - C16 fraction.
#19 Separate management limits for BTEX & naphthalene are not available hence should not be subtracted from the relevant fractions to obtain F1 & F2

#20 Ecological Investigation Levels (EIL) for B(a)P in residential land uses (CRCCare 2017)

Environmental Standards
NEPM, NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil
NEPM, NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil

Table A - Soil
Project Number: 69329
Project Name: SSDA Stage 3, 960A Bourke Street, Zetland

	Chlorinated Benzenes					Trihalomethanes				Organic Sulfur Compounds	Ionic Balance			Inorganics			Moisture Content	Other				
	1,2,3-trichlorobenzene	1,2,4-trichlorobenzene	1,2-Dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Dibromochloromethane	Chloroform	Tribromomethane	Bromodichloromethane	Carbon disulfide	pH (after HCL)	pH (Final)	pH (Initial)	Electrical Conductivity (Non Compensated)	Moisture	pH 1:5 soil:water1:5 soil:water	Moisture Content	Moisture Content (dried @ 103°C)	Asphalt	Low Molecular Weight PAHs	Scheduled chemicals	Total DDT
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	pH Units	pH Units	pH Units	dS/cm	%	ph	%	%	%	mg/kg	mg/kg	mg/kg
EQL																	0.1	1				
NEPM 2013 Table 1A(1) HILs Res B Soil																						
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay																						
>=0m, <1m																						
>=1m, <2m																						
>=2m, <4m																						
>=4m																						
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand																						
>=0m, <1m																						
>=1m, <2m																						
>=2m, <4m																						
>=4m																						
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																						
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																						
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																						
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																						
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																						

Location Code	Field ID	Matrix Description	Date	Lab Report Number																					
BH10	BH10_4.3-4.5	Fill - SAND	May 2007	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH10	BH10_7-7.5	Fill - CLAY	May 2007	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH13	BH13_0.3-0.4	Fill - SAND	May 2007	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-
BH13	BH13_7.6-8	Fill - SAND	May 2007	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH7	BH7_0.2-0.4	Fill - SAND	May 2007	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH7	BH7_8.8-9	Fill - SAND	May 2007	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH8	BH8_0.1-0.2	Fill - GRAVEL	May 2007	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH8	BH8_6-6.5	Fill - CLAY	May 2007	HLA 2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14	BH14_2-2.1	Fill - SAND	07 Feb 2011	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	71	-	-
BH14	BH14_5-5.1	Fill - CLAY	08 Feb 2011	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.3	-	-
BH14	BH14_8.2-8.3	Fill - SAND	08 Feb 2011	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1.6	-	-
BH500	BH500_0.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.0	-	-	-	-
BH500	BH500_2.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-	-	-	-
BH500	QA20220217_PG6	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-	-	-	-
BH500	QC20220217-PG6	Fill - SAND	17 Feb 2022	289593	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-	-	-	-	-
BH500	BH500_3.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	-	-	-	-
BH500	BH500_5.0	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	-	-	-	-
BH500	BH500_6.5	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	-	-	-	-
BH500	BH500_8.0	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19	-	-	-	-
BH500	BH500_9.5	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	-	-	-	-
BH500	BH500_11.0	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	-	-	-	-
BH501	BH501_1.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.6	-	-	-	-
BH501	BH501_2.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	-	-	-	-
BH501	BH501_4.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	-	-	-	-
BH501	QA20220217_PG5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	-	-	-	-
BH501	QC20220217-PG5	Fill - SAND	17 Feb 2022	289593	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	-	-	-	-	-
BH501	BH501_5.5	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	-	-	-	-
BH501	BH501_7.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22	-	-	-	-
BH501	BH501_8.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22	-	-	-	-
BH501	BH501_10.0	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	-	-	-	-
BH501	BH501_11.5	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	-	-	-	-
BH502	BH502_1.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	-	-	-	-
BH502	BH502_2.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.8	-	-	-	-
BH502	BH502_3.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.6	-	-	-	-
BH502	BH502_5.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23	-	-	-	-
BH502	BH502_6.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24	-	-	-	-
BH502	BH502_8.0	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19	-	-	-	-
BH502	BH502_9.5	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	-	-	-	-
BH502	BH502_11.0	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	-	-	-	-
BH502	BH502_12.5	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	-	-	-	-
BH503	BH503_0.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.5	-	-	-	-
BH503	BH503_2.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	-	-	-	-
BH503	BH503_3.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	-	-	-	-
BH503	BH503_5.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	-	-	-	-
BH503	BH503_6.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26	-	-	-	-
BH503	BH503_8.0	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	-	-	-	-
BH503	BH503_9.5	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	-	-	-	-
BH503	BH503_11.0	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21	-	-	-	-
BH503	BH503_12.5	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	-	-	-	-
BH504	BH504_0.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	-	-	-	-
BH504	QA20220217_PG2	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.3	-	-	-	-
BH504	QC20220217-PG2	Fill - SAND	17 Feb 2022	289593	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.9	-	-	-	-	-
BH504	BH504_2.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-	-	-	-
BH504	BH504_3.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-	-	-	-
BH504	QA20220217_PG3	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	-	-	-	-
BH504	QC20220217-PG3	Fill - SAND	17 Feb 2022	289593	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	-	-	-	-	-
BH504	BH504_4.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21	-	-	-	-
BH504	BH504_6.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22	-	-	-	-
BH504	BH504_7.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24	-	-	-	-
BH504	BH504_9.0	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19	-	-	-	-
BH504	BH504_10.5	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26	-	-	-	-
BH504	BH504_12.0	Fill - CLAY	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19	-	-	-	-
BH505	BH505_1.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.5	-	-	-	-
BH505	BH505_3.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	-	-	-	-
BH505	QA20220217_PG4	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	-	-	-	-
BH505	QC20220217-PG4	Fill - SAND	17 Feb 2022	289593	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.3	-	-	-	-	-
BH505	BH505_4.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.3	-	-	-	-
BH505	BH505_6.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.6	-	-	-	-
BH505	BH505_7.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	-	-	-	-
BH505	BH505_9.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21	-	-	-	-
BH505	BH505_10.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22	-	-	-	-
BH505	BH505_11.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19	-	-	-	-
BH506	BH506_1.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.6	-	-	-	-

Table A - Soil
Project Number: 69329
Project Name: SSDA Stage 3, 960A Bourke Street, Zetland

	Chlorinated Benzenes					Trihalomethanes				Organic Sulfur Compounds	Ionic Balance			Inorganics			Moisture Content	Other				
	1,2,3-trichlorobenzene	1,2,4-trichlorobenzene	1,2-Dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Dibromochloromethane	Chloroform	Tribromomethane	Bromodichloromethane	Carbon disulfide	pH (after HCL)	pH (Final)	pH (Initial)	Electrical Conductivity (Non Compensated)	Moisture	pH 1:5 soil:water1:5 soil:water	Moisture Content	Moisture Content (dried @ 103°C)	Asphalt	Low Molecular Weight PAHs	Scheduled chemicals	Total DDT
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	pH Units	pH Units	pH Units	dS/cm	%	ph	%	%	%	mg/kg	mg/kg	mg/kg
EQL																	0.1	1				
NEPM 2013 Table 1A(1) HILs Res B Soil																						
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay																						
>=0m, <1m																						
>=1m, <2m																						
>=2m, <4m																						
>=4m																						
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand																						
>=0m, <1m																						
>=1m, <2m																						
>=2m, <4m																						
>=4m																						
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																						
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																						
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																						
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																						
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																						

Location Code	Field ID	Matrix Description	Date	Lab Report Number																					
BH506	BH506_2.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	-	-	-	-
BH506	BH506_4.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	-	-	-	-
BH506	BH506_5.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	-	-	-	-
BH506	BH506_6.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	-	-	-	-
BH506	BH506_8.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24	-	-	-	-
BH506	BH506_9.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20	-	-	-	-
BH507	BH507_0.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0	-	-	-	-
BH507	BH507_1.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.4	-	-	-	-
BH507	QA20220217_PG1	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.3	-	-	-	-
BH507	QC20220217-PG1	Fill - SAND	17 Feb 2022	289593	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.7	-	-	-	-	-	-
BH507	BH507_3.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.5	-	-	-	-
BH507	BH507_4.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.0	-	-	-	-
BH507	BH507_6.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.8	-	-	-	-
BH507	BH507_7.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27	-	-	-	-
BH507	BH507_9.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20	-	-	-	-
BH507	BH507_10.5	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19	-	-	-	-
BH507	BH507_12.0	Fill - SAND	17 Feb 2022	865678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	-	-	-	-
BH508	BH508_0.5	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.0	-	-	-	-
BH508	BH508_2.0	Fill - GRAVEL	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	-	-	-	-
BH508	BH508_3.5	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.3	-	-	-	-
BH508	BH508_4.5	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.6	-	-	-	-
BH508	BH508_6.0	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	-	-	-	-
BH508	BH508_7.0	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	-	-	-	-
BH509	BH509_0.5	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.1	-	-	-	-
BH509	BH509_2.0	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.6	-	-	-	-
BH509	BH509_2.5	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.9	-	-	-	-
BH509	QA20220218PG3	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.3	-	-	-	-
BH509	QC20220218-PG3	Fill - SAND	18 Feb 2022	289684	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	-	-	-	-	-	-
BH509	BH509_3.5	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.9	-	-	-	-
BH509	BH509_5.0	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.1	-	-	-	-
BH509	BH509_6.5	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19	-	-	-	-
BH509	BH509_7.5	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20	-	-	-	-
BH510	BH510_1.0	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.0	-	-	-	-
BH510	BH510_2.5	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-	-	-	-
BH510	BH510_4.0	Fill - CLAY	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	-	-	-	-
BH510	BH510_5.5	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	-	-	-	-
BH510	BH510_7.0	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	-	-	-	-
BH510	BH510_8.0	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	-	-	-	-
BH511	BH511_0.5	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.0	-	-	-	-
BH511	BH511_2.0	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	-	-	-	-
BH511	BH511_3.5	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.7	-	-	-	-
BH511	BH511_5.0	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.6	-	-	-	-
BH511	BH511_6.5	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-	-	-	-
BH511	BH511_8.0	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	-	-	-	-
BH512	BH512_0.5	Fill - SAND	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.4	-	-	-	-
BH512	BH512_2.0	Fill - CLAY	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-	-	-	-
BH512	QA20220218PG1	Fill - CLAY	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	-	-	-	-
BH512	QC20220218-PG1	Fill - CLAY	18 Feb 2022	289684	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.9	-	-	-	-	-	-
BH512	BH512_2.5	Fill - CLAY	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	-	-	-	-
BH512	BH512_3.5	Fill - GRAVEL	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.5	-	-	-	-
BH512	BH512_4.5	Fill - GRAVEL	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.1	-	-	-	-
BH512	BH512_5.5	Fill - GRAVEL	18 Feb 2022	866070	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.1	-	-	-	-
BHP3	BHP3_0.5-0.6	Fill_SAND	01 Feb 2011	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30.24	-	-
BHP3	BHP3_2-2.1	Fill_CLAY	01 Feb 2011	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17.28	-	-
BHP3	BHP3_5.5-5.6	SAND	01 Feb 2011	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.15	-	-
FC053	FC053_0-0.1	Fill_SAND	JBS&G 2014	403832	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.9	0	<0.05
FC053	FC053_0-0.1	Fill_SAND	JBS&G 2014	404625	-	-	-	-	-	-	-	-	-	1.7	5.4	8.7	-	-	-	-	-	-	-	-	-	-
FC053	FC053_2-2.1	Fill_SAND	JBS&G 2014	403832	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	230.8	-	-
FC053	FC053_2-2.1	Fill_SAND	JBS&G 2014	404625	-	-	-	-	-	-	-	-	-	1.7	5.7	8.9	-	-	-	-	-	-	-	-	-	-
FC054	FC054_0.5	Fill_SAND	JBS&G 2014	403832	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	0	<0.05
FC054	FC054_1-1.1	Fill_SAND	JBS&G 2014	403832	-	-	-	-	-	-	-	-	-	-	-	-	1.2	-	8.4	-	-	-	-	14.35	-	-
FC055	FC055_0-0.1	Fill_SAND	JBS&G 2014	403832	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	38.75	0	<0.05
FC055	FC055_0-0.1	Fill_SAND	JBS&G 2014	404625	-	-	-	-	-	-	-	-	-	1.6	6.6	8.8	-	-	-	-	-	-	-	-	-	-
FC055	QC01	Fill_SAND	JBS&G 2014	403832	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	83.85	0	<0.05
FC055	QC01	Fill_SAND	JBS&G 2014	404625	-	-	-	-	-	-	-	-	-	1.7	6.8	8.8	-	-	-	-	-	-	-	-	-	-
FC055	QC01-A	Fill_SAND	JBS&G 2014	102718	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.2	0	<0.1
FC055	FC055_1-1.1	Fill_SAND	JBS&G 2014	403832	-	-	-	-	-	-	-	-	-	-	-	-	0.87	-	8.5	-	-	-	-	649.7	-	-
FC055	FC055_1-1.1	Fill_SAND	JBS&G 2014	404625	-	-	-	-	-	-	-	-	-	1.6	6.9	8.9	-	-	-	-	-	-	-	-	-	-
FC055	FC055_4-4.1	Fill_SAND	JBS&G 2014	403832	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	173.1	0	<0.05
FC055	FC055_4-4.1	Fill_SAND	JBS&G 2014	404625	-	-	-	-	-	-	-	-	-	1.7	6.9	8.7	-	-	-	-	-	-	-	-	-	-
FC056	FC056_2-2.1	Fill_SAND	JBS&G 2014	403832	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.65	-	-
FC056	FC056_3-3.1	Fill_SAND	JBS&G 2014	403832	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.7	-	-
FC057	FC057_0-0.1	Fill_SAND	JBS&G 2014	403941	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	142.2	0	<0.05
FC057	FC057_0-0.1	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-	-	1.7	5.7	9	-	-	-	-	-	-	-	-	-	-

Table A - Soil
Project Number: 69329
Project Name: SSDA Stage 3, 960A Bourke Street, Zetland

	Chlorinated Benzenes					Trihalomethanes				Organic Sulfur Compounds	Ionic Balance			Inorganics			Moisture Content	Other				
	1,2,3-trichlorobenzene	1,2,4-trichlorobenzene	1,2-Dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Dibromochloromethane	Chloroform	Tribromomethane	Bromodichloromethane	Carbon disulfide	pH (after HCL)	pH (Final)	pH (Initial)	Electrical Conductivity (Non Compensated)	Moisture	pH 1:5 soil:water	Moisture Content	Moisture Content (dried @ 103°C)	Asphalt	Low Molecular Weight PAHs	Scheduled chemicals	Total DDT
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	pH Units	pH Units	pH Units	dS/cm	%	ph	%	%	%	mg/kg	mg/kg	mg/kg
EQL																	0.1	1				
NEPM 2013 Table 1A(1) HILs Res B Soil																						
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay																						
>=0m, <1m																						
>=1m, <2m																						
>=2m, <4m																						
>=4m																						
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand																						
>=0m, <1m																						
>=1m, <2m																						
>=2m, <4m																						
>=4m																						
NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																						
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																						
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																						
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																						
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																						

Location Code	Field ID	Matrix Description	Date	Lab Report Number																				
FC057	FC057_2-2.1	Fill_SAND	JBS&G 2014	403941	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.9	-	-
FC058	FC058_0.5-0.6	Fill_SAND	JBS&G 2014	403941	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23.65	0	<0.05
FC058	FC058_0.5-0.6	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-	-	-	1.7	5.6	8.6	-	-	-	-	-	-	-	-
FC058	QC02	Fill_SAND	JBS&G 2014	403941	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16.7	0	<0.05
FC058	QC02	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-	-	-	1.7	5.5	8.6	-	-	-	-	-	-	-	-
FC058	QC02-A	Fill_SAND	JBS&G 2014	102801	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	41.5	0	<0.1
FC058	FC058_5-5.1	Fill_SAND	JBS&G 2014	403941	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20.15	-	-
FC058	FC058_5-5.1	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-	-	-	1.7	5.5	8.5	-	-	-	-	-	-	-	-
FC059	FC059_0.5-0.6	Fill_SAND	JBS&G 2014	403941	-	-	-	-	-	-	-	-	-	-	-	-	-	1.3	-	8.2	-	-	45	-	-
FC059	FC059_0.5-0.6	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-	-	-	1.7	7	8.9	-	-	-	-	-	-	-	-
FC059	FC059_1-1.1	Fill_SAND	JBS&G 2014	403941	-	-	-	-	-	-	-	-	-	-	-	-	-	0.92	-	8.4	-	-	177.5	-	-
FC059	FC059_1-1.1	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-	-	-	1.8	6.6	8.7	-	-	-	-	-	-	-	-
FC060	FC060_1-1.1	Fill_SAND	JBS&G 2014	403941	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.8	-	-
FC060	FC060_2-2.1	Fill_SAND	JBS&G 2014	403941	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	83.4	0	<0.05
FC060	FC060_2-2.1	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-	-	-	1.7	7	8.7	-	-	-	-	-	-	-	-
FC060	FC060_3-3.1	Fill_SAND	JBS&G 2014	403941	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	32.3	-	-
FC060	FC060_3-3.1	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-	-	-	1.7	7	8.8	-	-	-	-	-	-	-	-
FC061	FC061_1-1.1	Fill_SAND	JBS&G 2014	403941	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	54.7	0	<0.05
FC061	FC061_1-1.1	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-	-	-	1.7	6.5	8.8	-	-	-	-	-	-	-	-
FC061	FC061_3-3.1	Fill_SAND	JBS&G 2014	403941	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35.05	-	-
FC061	FC061_3-3.1	Fill_SAND	JBS&G 2014	404576	-	-	-	-	-	-	-	-	-	-	1.8	7	9.1	-	-	-	-	-	-	-	-
FC062	FC062_0.1-0.2	Fill_SAND	JBS&G 2014	405422	-	-	<0.05	<0.05	<0.05	-	-	<0.05	-	<0.05	-	-	-	-	-	-	-	-	18.9	0	<0.05
FC062	FC062_0.1-0.2	Fill_SAND	JBS&G 2014	406078	-	-	-	-	-	-	-	-	-	-	1.6	5.6	8.7	-	6	-	-	-	-	-	-
FC062	QC05	Fill_SAND	JBS&G 2014	405422	-	-	<0.05	<0.05	<0.05	-	-	<0.05	-	<0.05	-	-	-	-	-	-	-	-	14.85	0	<0.05
FC062	QC05-A	Fill_SAND	JBS&G 2014	103460	<1	<1	<1	<1	<1	-	-	<1	-	-	-	-	-	-	-	-	-	-	26.25	0	<0.1
FC062	FC062_3.8-4	Fill_CLAY	JBS&G 2014	405422	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<3.75	-	-
FC063	FC063_1.6-1.8	Fill_SAND	JBS&G 2014	405422	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	94.45	-	-
FC063	FC063_1.6-1.8	Fill_SAND	JBS&G 2014	406078	-	-	-	-	-	-	-	-	-	-	1.7	6.4	8.5	-	17	-	-	-	-	-	-
FC063	FC063_3.8-4	Fill_SAND	JBS&G 2014	405422	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.45	-	-
FC064	FC064_0.1-0.2	Fill_SAND	JBS&G 2014	405524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.75	0	<0.05
FC064	FC064_0.1-0.2	Fill_SAND	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	1.9	6.2	8.4	-	5.1	-	-	-	-	-	-
FC064	FC064_0.5-0.7	Fill_GRAVEL	JBS&G 2014	405524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<5.25	-	-
FC064	FC064_3.1-3.3	Fill_SAND	JBS&G 2014	405524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	-	-
FC064	FC064_3.1-3.3	Fill_SAND	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	1.9	5.8	7.9	-	21	-	-	-	-	-	-
FC064	FC064_4.7-4.9	Fill_CLAY	JBS&G 2014	405524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.2	-	-
FC065	FC065_0.1-0.2	Fill_SAND	JBS&G 2014	405524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.75	0	<0.05
FC065	FC065_0.5-0.7	Fill_CLAY	JBS&G 2014	405524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	-	-
FC065	FC065_0.5-0.7	Fill_CLAY	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	1.8	5.8	8.9	-	13	-	-	-	-	-	-
FC065	FC065_1-1.2	Fill_CLAY	JBS&G 2014	405524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	390.8	0	<0.05
FC065	FC065_1-1.2	Fill_CLAY	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	1.8	6.3	8.7	-	11	-	-	-	-	-	-
FC065	FC065_2.3-2.5	Fill_CLAY	JBS&G 2014	405524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.4	0	<0.05
FC065	FC065_2.3-2.5	Fill_CLAY	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	1.8	5.1	8.5	-	11	-	-	-	-	-	-
FC065	FC065_3-3.2	Fill_SAND	JBS&G 2014	405524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.15	-	-
FC066	FC066_0.5-0.7	Fill_SAND	JBS&G 2014	405524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.9	-	-
FC066	FC066_0.5-0.7	Fill_SAND	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	1.8	6.3	8.8	-	11	-	-	-	-	-	-
FC066	FC066_1.5-1.7	Fill_SAND	JBS&G 2014	405524	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	-	-	0.25	-	-
FC066	FC066_1.5-1.7	Fill_SAND	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	1.8	6	8.8	-	10	-	-	-	-	-	-
FC066	FC066_2.5-2.7	Fill_SAND	JBS&G 2014	405524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.35	0	<0.05
FC066	FC066_2.5-2.7	Fill_SAND	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	1.8	6.3	8.9	-	7.8	-	-	-	-	-	-
FC066	FC066_3.1-3.3	Fill_SAND	JBS&G 2014	405524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<3.75	0	<0.05
FC067	FC067_0.5-0.6	Fill_SAND	JBS&G 2014	405524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23.75	-	-
FC067	FC067_0.5-0.6	Fill_SAND	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	1.8	6.4	8.7	-	8.5	-	-	-	-	-	-
FC067	FC067_0.9-1.1	Fill_GRAVEL	JBS&G 2014	405524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<3.75	-	-
FC067	FC067_3.1-3.3	Fill_SAND	JBS&G 2014	405524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<5.25	0	<0.05
FC068	FC068_0.1-0.2	Fill_SAND	JBS&G 2014	405524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16.3	-	-
FC068	FC068_0.1-0.2	Fill_SAND	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	1.8	6.4	8.8	-	5.4	-	-	-	-	-	-
FC068	FC068_1.1-1.3	Fill_CLAY	JBS&G 2014	405524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.1	-	-
FC068	FC068_1.1-1.3	Fill_CLAY	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	1.9	6.1	8.8	-	12	-	-	-	-	-	-
FC068	FC068_4.8-5	Fill_CLAY	JBS&G 2014	405524	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.7	0	<0.05
FC068	FC068_4.8-5	Fill_CLAY	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	1.8	6.4	9	-	12	-	-	-	-	-	-
FC069	FC069_6-6.1	Fill_SAND	JBS&G 2014	405819	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	248.9	-	-
FC069	FC069_6-6.1	Fill_SAND	JBS&G 2014	406432	-	-	-	-	-	-	-	-	-	-	1.8	5.1	8	-	14	-	-	-	-	-	-
FC069	FC069_8-8.1	SAND	JBS&G 2014	405819	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	38.75	-	-
FC069	FC069_8-8.1	SAND	JBS&G 2014	406432	-	-	-	-	-	-	-	-	-	-	1.8	5	8.3	-	21	-	-	-	-	-	-
FC070	FC070_0.1-0.2	Fill_SAND	JBS&G 2014	405454	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36.45	0	<0.05
FC070	FC070_0.1-0.2	Fill_SAND	JBS&G 2014	406249	-	-	-	-	-	-	-	-	-	-	1.8	5.2	7.4	-	21	-	-	-	-	-	-
FC070	FC070_0.5-0.6	Fill_SAND	JBS&G 2014	405454	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23.35	-	-
FC070	FC070_0.5-0.6	Fill_SAND	JBS&G 2014	406249	-	-	-	-	-	-	-	-	-	-	1.8	5.1	7.5	-	21	-	-	-	-	-	-
FC070	FC070_6-6.1	Fill_SAND	JBS&G 2014	405819	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<3.75	-	-
FC070	QC18	Fill_SAND	JBS&G 2014	405819	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<3.75	-	-
FC070	QC18-A	Fill_SAND	JBS&G 2014	103629	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.775	-	-
FC071	FC071_0.5-0.8	Fill_SAND	JBS&G 2014	405454	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	104.7	0	<0.05
FC071	FC071_0.5-0.8	Fill_SAND	JBS&G 2014	406249	-	-	-	-	-	-	-	-	-	-	1.7	5.3	7.1	-	12	-	-	-	-	-	-
FC071	FC071_2.8-3	Fill_SAND	JBS&G 2014	405454	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<5.25	0	<0.05

Table A - Soil
Project Number: 69329
Project Name: SSDA Stage 3, 960A Bourke Street, Zetland

	Chlorinated Benzenes					Trihalomethanes				Organic Sulfur Compounds	Ionic Balance			Inorganics			Moisture Content	Other				
	1,2,3-trichlorobenzene	1,2,4-trichlorobenzene	1,2-Dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Dibromochloromethane	Chloroform	Tribromomethane	Bromodichloromethane	Carbon disulfide	pH (after HCL)	pH (Final)	pH (initial)	Electrical Conductivity (Non Compensated)	Moisture	pH 1:5 soil:water1:5 soil:water	Moisture Content	Moisture Content (dried @ 103°C)	Asphalt	Low Molecular Weight PAHs	Scheduled chemicals	Total DDT
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	pH Units	pH Units	pH Units	dS/cm	%	ph	%	%	%	mg/kg	mg/kg	mg/kg
EQL																	0.1	1				
NEPM 2013 Table 1A(1) HILs Res B Soil																						
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Clay																						
>=0m, <1m																						
>=1m, <2m																						
>=2m, <4m																						
>=4m																						
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand																						
>=0m, <1m																						
>=1m, <2m																						
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NEPM 2013 Table 1B(1-5) Generic EIL - Urban Residential and Public Open Space																						
NEPM 2013 Table 1B(6) ESLs for Urban Res, Coarse Soil																						
NEPM 2013 Table 1B(6) ESLs for Urban Res, Fine Soil																						
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil																						
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																						

Location Code	Field ID	Matrix Description	Date	Lab Report Number																					
FC071	FC071_2.8-3	Fill_SAND	JBS&G 2014	406249	-	-	-	-	-	-	-	-	-	-	1.8	6.2	8.9	-	10	-	-	-	-	-	-	-
FC071	FC071_4.8-5	Fill_SAND	JBS&G 2014	405454	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	58.45	-	-
FC071	FC071_4.8-5	Fill_SAND	JBS&G 2014	406249	-	-	-	-	-	-	-	-	-	-	1.8	6.2	8.9	-	12	-	-	-	-	-	-	-
FC071	FC071_6-6.1	Fill_SAND	JBS&G 2014	405819	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	44.8	-	-
FC071	FC071_6-6.1	Fill_SAND	JBS&G 2014	406432	-	-	-	-	-	-	-	-	-	-	1.7	5.2	8.6	-	18	-	-	-	-	-	-	-
FC071	FC071_8-8.1	Fill_SAND	JBS&G 2014	405819	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	-	-	-	0.25	-	-
FC072	FC072_0.4-0.6	Fill_SAND	JBS&G 2014	405454	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<5.25	0	<0.05
FC072	FC072_1.5-0.7	Fill_CLAY	JBS&G 2014	405454	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.95	0	<0.05
FC072	FC072_2.9-3.1	Fill_CLAY	JBS&G 2014	405454	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<3.75	-	-
FC072	FC072_6-6.1	Fill_CLAY	JBS&G 2014	405819	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.6	-	-
FC072	FC072_6-6.1	Fill_CLAY	JBS&G 2014	406432	-	-	-	-	-	-	-	-	-	-	1.8	6.1	8.5	-	22	-	-	-	-	-	-	-
I3	I3_3.9-4	Fill - SAND	04 Feb 2011	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	71	-	-
I3	I3_5.4-5.5	Fill - CLAY	04 Feb 2011	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30	-	-
R31	R31_0.5-0.6	Fill - SAND	04 Feb 2011	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31.79	-	-
R32	R32_0.5-0.6	Fill - SAND	03 Feb 2011	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	38.81	-	-
R32	R32_2-2.1	Fill - SAND	03 Feb 2011	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	38.84	-	-
R33	R33_1.5-1.6	Fill - SAND	04 Feb 2011	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.42	-	-

Comments

#1 Arsenic: HIL assumes 70% oral bioavailability. Site-specific bioavailability maybe important and should be considered where appropriate (refer Shedule B7).
#2 Trigger Value adopted from Chromium (VI)
#3 Lead: HILs A,B,C based on blood lead models (IEUBK & HIL D on adult lead model for where 50% bioavailability considered. Site-specific bioavailability should be considered where appropriate.

#4 Elemental mercury: HIL does not address elemental mercury. a site specific assessment should be considered if elemental mercury is present, or suspected to be present.

#5 Carcinogenic PAHs: HIL based on 8 carc. PAHs & their TEFs (rel to BaP ref Schedule 7) BaP TEQ calc by multiplying the conc of each carc. PAH in sample by its BaP TEF (ref Table 1A(1)) & summing

#6 Total PAHs: Based on sum of 16 most common reported (WHO 98). HIL application should consider presence of carcinogenic PAHs (should meet BaP TEQ HIL) & napthalene (should meet relevant HSL)

#7 PCBs: HIL refers to non-dioxin like PCBs only. Where PCB source is known, or suspected at a site, a site-specific assessment of exposure to all PCBs (inc dioxin like PCBs) should be undertaken
#8 Derived soil HSL exceeds soil saturation concentraiton. To obtain F1 subtract the sum of BTEX concentrations from the C6 - C10 fraction.
#9 Derived soil HSL exceeds soil saturation concentraiton. To obtain F2 subtract naphthalene from the >C10-C16 fraction
#10 Derived soil HSL exceeds soil saturation concentraiton

#11 Aged values apply to arsenic contamination present in soil > 2 years. Refer Schedule B5c for < 2 years.
#12 Trigger Value taken for Chromium (III), Clay Content of 1%
#13 Trigger Value taken for pH 4.5
#14 Trigger Value taken for CEC 5
#15 Trigger Value taken for pH 4 and CEC 5
#16 ESLs are of low reliability.
#17 ESLs are of moderate reliability. To obtain F1 subtract the sum of BTEX concentrations from the C6 - C10

#18 ESLs are of moderate reliability. To obtain F2 subtract napthalene from the >C10 - C16 fraction.
#19 Separate management limits for BTEX & naphthalene are not available hence should not be subtracted from the relevant fractions to obtain F1 & F2

#20 Ecological Investigation Levels (EIL) for B(a)P in residential land uses (CRCCare 2017)

Environmental Standards
NEPM, NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Coarse Soil
NEPM, NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil

Table B - Asbestos
Project Number: 69329
Project Name: Green Square Town Centre, Stage 3 - 960A Bourke Street, Zetland

					Asbestos - Laboratory Analysis										Asbestos - Field Quantification					
					Approximate Sample Mass	Mass ACM	Mass Asbestos in ACM	Asbestos from ACM in Soil	Mass FA	Mass Asbestos in FA	Mass AF	Mass asbestos in AF	Asbestos from FA & AF in Soil	Mass Asbestos in FA & AF	Quantification Soil Volume	Assumed Bulk Density	ACM Dimensions	Sample Weight	ACM Weight	ACM Quantification (%w/w)
					g	g	g	% (w/w)	g	g	g	g	% (w/w)	g	L	g/cm	mm	g	g	%(w/w)
EQL					-	-	-	<0.001	-	-	-	-	<0.001	-	-	-	-	-	-	-
NEPM 2013 Table 7 Res B Soil HSL for Asbestos in Soil								0.04[#1]					0.001[#2]							0.04
Sample ID	Date	Depth Range (m)	Report Number	Matrix Description																
Asbestos Quantification - Stage 3																				
AQ001_1	17/03/2023	0-0.3	974623	Fill - GRAVEL	695	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ001_2	17/03/2023	0.3-1.2	974623	Fill - SAND	604	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ001_3	17/03/2023	1.2-2.3	974623	Fill - SAND	689	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ001_4	17/03/2023	2.3-3.8	974623	Fill - CLAY	875	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QA15	20/03/2023	2.3-3.8	319142	Fill - CLAY	927	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QC15	17/03/2023	2.3-3.8	974623	Fill - CLAY	827	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ001_5	17/03/2023	3.8-5.3	974623	Fill - CLAY	693	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ001_6	17/03/2023	5.3-6.8	974623	Fill - CLAY	760	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ001_7	17/03/2023	6.8-7.9	974623	Fill - CLAY	785	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ001_8	17/03/2023	7.9-9	974623	Fill - CLAY	830	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ001_9	17/03/2023	9-10	974623	Fill - CLAY	691	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ001_10	17/03/2023	10-11.3	974623	Fill - CLAY	820	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ001_11	17/03/2023	11.3-11.8	974623	Natural - CLAY	796	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ001_12	17/03/2023	11.8-12.5	974623	Natural - CLAY	821	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ001_13	17/03/2023	12.5-13.3	974623	Natural - CLAY	823	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ001_14	17/03/2023	13.3-14.3	974623	Natural - CLAY	720	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ002-1	15/03/2023	0.01-1.1	972947	Fill - CLAY	589	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ002-2	15/03/2023	1.1-2.1	972947	Fill - CLAY	865	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ002-3	15/03/2023	2.1-3.1	972947	Fill - SAND	794	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ002-4	15/03/2023	3.1-4.1	972947	Fill - SAND	640	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ002-5	15/03/2023	4.1-5.1	972947	Fill - SAND	632	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ002-6	15/03/2023	5.1-6.1	972947	Fill - SAND	837	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ002-7	15/03/2023	6.1-7.1	972947	Fill - SAND	959	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QA04	15/03/2023	6.1-7.1	318798	Fill - SAND	787	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QC04	15/03/2023	6.1-7.1	972947	Fill - SAND	944	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ002-8	15/03/2023	7.1-8.1	976584	Fill - SAND	748	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ002-9	15/03/2023	8.1-9.1	972947	Fill - CLAY	673	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ002-10	15/03/2023	10.1-11.1	972947	Fill - CLAY	632	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ002-11	15/03/2023	11.1-12.1	972947	Fill - CLAY	714	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ002-12	15/03/2023	12.1-13.1	972947	Natural - CLAY	694	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ002-13	15/03/2023	13.1-14	972947	Natural - CLAY	679	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ002-14	15/03/2023	12.1-13.1	972947	Natural - CLAY	713	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ003-1	15/03/2023	0-1.1	972947	Fill - SAND	763	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QA01	15/03/2023	0-1.1	318798-A	Fill - SAND	781	0.6452	-	**0.0645**	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QC01	15/03/2023	0-1.1	972947	Fill - SAND	570	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ003-2	15/03/2023	1.1-1.9	972947	Fill - SAND	688	-	-	<0.001	-	-	0.0002	0.00019	0.0000276123	0.00019	10	1.65	-	-	-	-
AQ003-3	15/03/2023	1.9-3.1	972947	Fill - SAND	776	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ003-4	15/03/2023	3.1-4	972947	Fill - SAND	724	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ003-5	15/03/2023	4-5	972947	Fill - SAND	797	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ003-6	15/03/2023	5-6.2	972947	Fill - SAND	912	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ003-7	15/03/2023	6.2-6.9	972947	Fill - WEATHERED SANDSTONE	978	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ003-8	15/03/2023	6.9-7.2	972947	Fill - CLAY	901	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ003-9	15/03/2023	7.2-8.1	972947	Fill - CLAY	768	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ003-10	15/03/2023	8.1-9	972947	Natural - CLAY	790	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ003-11	15/03/2023	9-10.2	972947	Natural - CLAY	515	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ003-12	15/03/2023	10.2-11.5	972947	Natural - CLAY	1021	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ003-13	15/03/2023	11.5-12.8	972947	Natural - CLAY	819	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ003-14	15/03/2023	12.8-14	972947	Natural - CLAY	829	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ004_1	17/03/2023	0-1	973228	Fill - SAND	792	-	-	<0.001	-	-	0.0287	0.00287	0.000362328	0.00287	10	1.65	-	-	-	-
QA13	20/03/2023	0-1	319142	Fill - SAND	624	-	-	<0.001	-	-	-	-	0.0014	-	10	1.65	-	-	-	-
QC13	17/03/2023	0-1	973228	Fill - SAND	648	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ004_2	17/03/2023	1-2	973228	Fill - SAND	579	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ004_3	17/03/2023	2-3.3	973228	Fill - SAND	633	-	-	<0.001	-	-	0.0419	0.006285	0.0009927342	0.006285	10	1.65	90x40x3	27	0.027	0.024545455
AQ004_4	17/03/2023	3.3-4	973228	Fill - SAND	700	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ004_5	17/03/2023	4-5.2	973228	Fill - CLAY	825	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ004_6	17/03/2023	5.2-6	973228	Fill - CLAY	728	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ004_7	17/03/2023	6-7	973228	Fill - CLAY	849	-	-	<0.001	7.692	1.5384	0.0892	0.08474	0.1911600518	1.62314	10	1.65	-	-	-	-
AQ004_8	17/03/2023	7-7.8	973228	Fill - CLAY	9402	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ004_9	17/03/2023	7.8-9.2	973228	Fill - CLAY	872	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ004_10	17/03/2023	9.2-9.8	973228	Fill - CLAY	672	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ004_11	17/03/2023	9.8-10.8	973228	Natural - CLAY	733	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ004_12	17/03/2023	10.8-12	973228	Natural - CLAY	739	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ004_13	17/03/2023	12-13	973228	Natural - CLAY	921	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ004_14	17/03/2023	13-13.8	973228	Natural - CLAY	801	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ005_1	17/03/2023	0-1.1	973229	Fill - CLAY	694	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ005_2	17/03/2023	1.1-1.9	973229	Fill - CLAY	797	11.1848	1.67772	**0.2105836576**	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ005_3	17/03/2023	1.9-3.2	973229	Fill - CLAY	745	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ005_4	17/03/2023	3.2-4	973229	Fill - CLAY	744	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ005_5	17/03/2023	4-5.1	973229	Fill - CLAY	670	-	-	<0.001	-	-	0.0127	0.012065	0.0018010151	0.012065	10	1.65	-	-	-	-
AQ005_6	17/03/2023	5.1-5.8	973229	Fill - CLAY	807	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ005_7	17/03/2023	5.8-7	973229	Fill - CLAY	1026	2.2726	0.22726	0.0221587363	-	-	-	-	<0.001	-	10	1.65	-	-	-	-

Table B - Asbestos
Project Number: 69329
Project Name: Green Square Town Centre, Stage 3 - 960A Bourke Street, Zetland

					Asbestos - Laboratory Analysis									Asbestos - Field Quantification					
					Approximate Sample Mass	Mass ACM	Mass Asbestos in ACM	Asbestos from ACM in Soil	Mass FA	Mass Asbestos in FA	Mass AF	Mass asbestos in AF	Asbestos from FA & AF in Soil	Mass Asbestos in FA & AF	Quantification Soil Volume	Assumed Bulk Density	ACM Dimensions	Sample Weight	ACM Weight	ACM Quantification (%w/w)
					g	g	g	% (w/w)	g	g	g	g	% (w/w)	g	L	g/cm	mm	g	g	%(w/w)
EQL					-	-	-	<0.001	-	-	-	-	<0.001	-	-	-	-	-	-	-
NEPM 2013 Table 7 Res B Soil HSL for Asbestos in Soil								0.04[#1]					0.001[#2]							0.04
Sample ID	Date	Depth Range (m)	Report Number	Matrix Description																
AQ005_8	17/03/2023	7-8.2	973229	Fill - CLAY	972	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ005_9	17/03/2023	8.2-9.1	973229	Fill - CLAY	792	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ005_10	17/03/2023	9.1-10.2	973229	Fill - CLAY	890	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ005_11	17/03/2023	10.2-11	973229	Fill - CLAY	985	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ005_12	17/03/2023	11-11.8	973229	Fill - CLAY	730	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QA14	20/03/2023	11-11.8	319142	Fill - CLAY	652	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QC14	17/03/2023	11-11.8	973229	Fill - CLAY	796	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ005_12.5	17/03/2023	11.8-12.6	973229	Natural - CLAY	870	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ006-1	15/03/2023	0-1.3	972947	Fill - SAND	657	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QA03	15/03/2023	0-1.3	318798-A	Fill - SAND	733	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QC03	15/03/2023	0-1.3	972947	Fill - SAND	728	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ006-2	15/03/2023	1.3-2.3	972947	Fill - SAND	589	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ006-3	15/03/2023	2.3-3.2	972947	Fill - SAND	698	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ006-4	15/03/2023	3.2-4.3	972947	Fill - SAND	728	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ006-5	15/03/2023	4.3-5.2	972947	Fill - CLAY	896	-	-	<0.001	0.0072	0.00144	-	-	0.0001606784	0.00144	10	1.65	-	-	-	-
AQ006-6	15/03/2023	5.2-6	972947	Fill - CLAY	910	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ006-7	15/03/2023	6-7	972947	Fill - CLAY	848	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ006-8	15/03/2023	7-8	972947	Fill - CLAY	920	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ006-9	15/03/2023	8-9.1	972947	Fill - CLAY	884	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ006-10	15/03/2023	9.1-10	972947	Natural - CLAY	916	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ006-11	15/03/2023	10-11	972947	Natural - CLAY	736	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ006-12	15/03/2023	11-12	972947	Natural - CLAY	761	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ006-13	15/03/2023	12-13	972947	Natural - CLAY	920	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ006-14	15/03/2023	13-14	972947	Natural - CLAY	777	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ007-1	15/03/2023	0-1	972947	Fill - SAND	756	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ007-2	15/03/2023	1-2.2	972947	Fill - CLAY	692	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ007-3	15/03/2023	2.2-3.1	972947	Fill - CLAY	624	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ007-4	15/03/2023	3.1-4.6	972947	Fill - SAND	827	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ007-5	15/03/2023	4.6-5.3	972947	Fill - CLAY	642	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ007-6	15/03/2023	5.3-6	972947	Fill - CLAY	684	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ007-7	15/03/2023	6-7.2	972947	Fill - CLAY	616	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ007-8	15/03/2023	7.2-8.1	972947	Fill - CLAY	548	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ007-9	15/03/2023	8.1-8.9	972947	Fill - CLAY	664	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ007-10	15/03/2023	8.9-10	972947	Fill - CLAY	647	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QA02	15/03/2023	8.9-10	318798	Fill - CLAY	730	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QC02	15/03/2023	8.9-10	972947	Fill - CLAY	665	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ007-11	15/03/2023	10-11.2	972947	Natural - CLAY	692	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ007-12	15/03/2023	11.2-12.1	972947	Natural - SAND	635	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ007-13	15/03/2023	12.1-12.9	972947	Natural - SAND	846	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ007-14	15/03/2023	12.9-14.1	972947	Natural - CLAY	744	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ008-1	20/03/2023	0-1	974308	Fill - SAND	749	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ008-2	20/03/2023	1-2.2	974308	Fill - SAND	679	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ008-3	20/03/2023	2.2-2.9	974308	Fill - SAND	567	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QA17	20/03/2023	2.2-2.9	319142	Fill - SAND	657	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QC17	20/03/2023	2.2-2.9	974308	Fill - SAND	562	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ008-4	20/03/2023	2.9-3.9	974308	Fill - SAND	815	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ008-5	20/03/2023	3.9-4.9	974308	Fill - CLAY	905	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ008-6	20/03/2023	4.9-5.8	974308	Fill - CLAY	992	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ008-7	20/03/2023	5.8-7	974308	Fill - CLAY	688	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ008-8	20/03/2023	7-8	974308	Fill - CLAY	767	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ008-9	20/03/2023	8-9	974308	Fill - CLAY	791	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ008-10	20/03/2023	9-10	974308	Fill - CLAY	839	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ008-11	20/03/2023	10-11	974308	Fill - CLAY	713	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ008-12	20/03/2023	11-12	974308	Fill - CLAY	801	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ008-13	20/03/2023	12-13	974308	Fill - CLAY	758	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ008-14	20/03/2023	13-14.1	974308	Fill - CLAY	650	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ009-1	16/03/2023	0-1.4	973252	Fill - CLAY	658	-	-	<0.001	0.008	0.0048	0.0006	0.0006	0.0008207934	0.0054	10	1.65	-	-	-	-
AQ009-2	16/03/2023	1.4-2.3	973252	Fill - CLAY	655	-	-	<0.001	-	-	0.0008	0.0008	0.0001221934	0.0008	10	1.65	-	-	-	-
QA06	20/03/2023	1.4-2.3	319142	Fill - CLAY	685	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QC06	16/03/2023	1.4-2.3	973252	Fill - CLAY	501	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ009-3	16/03/2023	2.3-3.1	973252	Fill - CLAY	617	-	-	<0.001	-	-	0.0006	0.0006	0.0000971817	0.0006	10	1.65	-	-	-	-
AQ009-4	16/03/2023	3.1-4	973252	Fill - CLAY	809	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	60x25x5	9	0.009	0.008181818
AQ009-5	16/03/2023	4-5.2	973252	Fill - CLAY	985	2.7036	0.13518	0.0137210719	-	-	0.0013	0.0013	0.0001319529	0.0013	10	1.65	-	-	-	-
AQ009-6	16/03/2023	5.2-6.1	973252	Fill - CLAY	892	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ009-7	16/03/2023	6.1-7	973252	Fill - CLAY	903	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ009-8	16/03/2023	7-8	973252	Fill - CLAY	915	-	-	<0.001	-	-	0.0046	0.0046	0.0005028422	0.0046	10	1.65	-	-	-	-
AQ009-9	16/03/2023	8-9.3	973252	Fill - CLAY	864	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ009-10	16/03/2023	9.3-10.1	973252	Natural - CLAY	801	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ009-11	16/03/2023	10.1-11	973252	Natural - CLAY	850	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ009-12	16/03/2023	11-12	973252	Natural - CLAY	925	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ009-13	16/03/2023	12-13	973252	Natural - CLAY	870	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ009-14	16/03/2023	13-14.1	973252	Natural - CLAY	784	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ010_1	16/03/2023	0-1.1	973231	Fill - SAND	682	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QA05	20/03/2023	0-1.1	319142	Fill - SAND	713	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QC05	16/03/2023	0-1.1	973231	Fill - SAND	627	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ010_2	16/03/2023	1.1-2.3	973231	Fill - SAND	855	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ010_3	16/03/2023	2.3-3	973231	Fill - SAND	634	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ010_4	16/03/2023	3-4.1	973231	Fill - SAND	538	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ010_5	16/03/2023	4.1-5.1	973231	Fill - SAND	860	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ010_6	16/03/2023	5.1-6	973231	Fill - CLAY	958	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ010_7	16/03/2023	6-7	973231	Fill - CLAY	794	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ010_8	16/03/2023	7-8	973231	Fill - CLAY	888	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-

Table B - Asbestos
Project Number: 69329
Project Name: Green Square Town Centre, Stage 3 - 960A Bourke Street, Zetland

					Asbestos - Laboratory Analysis									Asbestos - Field Quantification					
					Approximate Sample Mass	Mass ACM	Mass Asbestos in ACM	Asbestos from ACM in Soil	Mass FA	Mass Asbestos in FA	Mass AF	Mass asbestos in AF	Asbestos from FA & AF in Soil	Mass Asbestos in FA & AF	Quantification Soil Volume	Assumed Bulk Density	ACM Dimensions	Sample Weight	ACM Weight	ACM Quantification (%w/w)
					g	g	g	% (w/w)	g	g	g	g	% (w/w)	g	L	g/cm	mm	g	g	%(w/w)
EQL					-	-	-	<0.001	-	-	-	-	<0.001	-	-	-	-	-	-	-
NEPM 2013 Table 7 Res B Soil HSL for Asbestos in Soil								0.04[#1]					0.001[#2]							0.04
Sample ID	Date	Depth Range (m)	Report Number	Matrix Description																
AQ010_9	16/03/2023	8-9.2	973231	Fill - CLAY	792	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ010_10	16/03/2023	9.2-10	973231	Fill - CLAY	657	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ010_11	16/03/2023	10-11	973231	Natural - CLAY	785	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ010_12	16/03/2023	11-12	973231	Natural - CLAY	803	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ010_13	16/03/2023	12-13	973231	Natural - CLAY	905	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ010_14	16/03/2023	13-14	973231	Natural - CLAY	783	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ11-1	20/03/2023	0.1-1.3	974295	Fill - CLAY	858	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	20x20x2	4	0.004	0.0036364
AQ11-2	20/03/2023	1.3-2.4	974295	Fill - CLAY	726	-	-	<0.001	0.1774	0.12418	-	-	0.0171117542	0.12418	10	1.65	-	-	-	-
AQ11-3	20/03/2023	2.4-3.4	974295	Fill - CLAY	778	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ11-4	20/03/2023	3.4-4.4	974295	Fill - CLAY	731	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ11-5	20/03/2023	4.4-5.6	974295	Fill - CLAY	699	-	-	<0.001	-	-	0.0003	0.0003	0.0000429123	0.0003	10	1.65	-	-	-	-
AQ11-6	20/03/2023	5.6-6.3	974295	Fill - CLAY	839	-	-	<0.001	-	-	0.0191	0.018145	0.0021639833	0.018145	10	1.65	60x50x3	23	0.023	0.020909091
AQ11-7	20/03/2023	6.3-7.3	974295	Fill - CLAY	837	-	-	<0.001	-	-	0.0009	0.0009	0.0001074755	0.0009	10	1.65	40x20x5	9	0.009	0.008181818
AQ11-8	20/03/2023	7.3-8.3	974295	Fill - CLAY	770	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ11-9	20/03/2023	8.3-9.3	974295	Fill - CLAY	387	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ11-10	20/03/2023	9.3-10.3	974295	Fill - CLAY	959	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ11-11	20/03/2023	10.3-11.3	974295	Fill - CLAY	830	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QA16	20/03/2023	10.3-11.3	319142	Fill - CLAY	967	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QC16	20/03/2023	10.3-11.3	974295	Fill - CLAY	903	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ11-12	20/03/2023	11.3-12.4	974295	Fill - CLAY	1072	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ012_1	17/03/2023	0-1.1	973322	Fill - SAND	696	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QA11	20/03/2023	0-1.1	319142	Fill - SAND	632	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QC11	17/03/2023	0-1.1	973322	Fill - SAND	680	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ012_2	17/03/2023	1.1-2.1	973322	Fill - SAND	560	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ012_3	17/03/2023	2.1-3.3	973322	Fill - SAND	628	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ012_4	17/03/2023	3.3-4.1	973322	Fill - SAND	619	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ012_5	17/03/2023	4.1-5.2	973322	Fill - SAND	648	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ012_6	17/03/2023	5.2-6.1	973322	Fill - CLAY	782	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ012_7	17/03/2023	6.1-7.2	973322	Fill - CLAY	787	-	-	<0.001	-	-	0.0002	0.0002	0.0000254001	0.0002	10	1.65	-	-	-	-
AQ012_8	17/03/2023	7.2-7.9	973322	Fill - CLAY	683	-	-	<0.001	0.0002	0.00018	-	-	0.0000263427	0.00018	10	1.65	-	-	-	-
AQ012_9	17/03/2023	7.9-8.9	973322	Fill - CLAY	891	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ012_10	17/03/2023	8.9-9.6	973322	Fill - CLAY	840	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ012_11	17/03/2023	9.6-10.8	973322	Reworked Natural - CLAY	785	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ012_12	17/03/2023	10.8-12	973322	Reworked Natural - CLAY	806	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ012_13	17/03/2023	12-12.6	973322	Natural - CLAY	828	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ012_14	17/03/2023	12.6-13.2	973322	Natural - CLAY	743	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQO13_1	16/03/2023	0-0.9	973227	Fill - SAND	738	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QA07	20/03/2023	0-0.9	319142	Fill - SAND	745	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QC07	16/03/2023	0-0.9	973227	Fill - SAND	642	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQO13_2	16/03/2023	0.9-2	973227	Fill - SAND	652	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQO13_3	16/03/2023	2-3.3	973227	Fill - SAND	584	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQO13_4	16/03/2023	3.3-4	973227	Fill - SAND	530	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQO13_5	16/03/2023	4-4.9	973227	Fill - SAND	733	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQO13_6	16/03/2023	4.9-6	973227	Fill - SAND	732	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQO13_7	16/03/2023	6-7	973227	Fill - SAND	804	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQO13_8	16/03/2023	7-8	973227	Fill - SAND	683	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQO13_9	16/03/2023	8-8.9	973227	Fill - SAND	995	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQO13_10	16/03/2023	8.9-10	973227	Fill - CLAY	680	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQO13_11	16/03/2023	10-11	973227	Fill - CLAY	850	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQO13_12	16/03/2023	11-12	973227	Fill - CLAY	838	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQO13_13	16/03/2023	12-13	973227	Fill - CLAY	671	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQO13_14	16/03/2023	13-14	973227	Fill - CLAY	860	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ014-01	16/03/2023	0-1	973250	Fill - CLAY	681	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ014-02	16/03/2023	1-2.1	973250	Fill - CLAY	678	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ014-03	16/03/2023	2.1-3.3	973250	Fill - CLAY	805	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ014-04	16/03/2023	3.3-3.9	973250	Fill - CLAY	770	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ014-05	16/03/2023	3.9-5.1	973250	Fill - CLAY	868	-	-	<0.001	-	0.0008	0.0008	0.0000921234	0.0008	-	10	1.65	-	-	-	-
QA08	20/03/2023	3.9-5.1	319142	Fill - CLAY	727	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QC08	16/03/2023	3.9-5.1	973250	Fill - CLAY	760	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ014-06	16/03/2023	5.1-6.1	973250	Fill - CLAY	919	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ014-07	16/03/2023	6.1-7.2	973250	Fill - CLAY	759	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ014-08	16/03/2023	7.2-8.1	973250	Fill - CLAY	719	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ014-09	16/03/2023	8.1-8.9	973250	Fill - CLAY	660	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ014-10	16/03/2023	8.9-10.1	973250	Fill - CLAY	505	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ014-11	16/03/2023	10.1-11.3	973250	Fill - CLAY	790	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ014-12	16/03/2023	11.3-12	973250	Natural - CLAY	532	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ014-13	16/03/2023	12-13.2	973250	Natural - CLAY	731	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ014-14	16/03/2023	13.2-14	973250	Natural - CLAY	766	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ015_1	17/03/2023	0-1	973234	Fill - CLAY	506	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ015_2	17/03/2023	1-2.3	973234	Fill - CLAY	682	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ015_3	17/03/2023	2.3-3.7	973234	Fill - CLAY	578	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ015_4	17/03/2023	3.7-4.6	973234	Fill - CLAY	575	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ015_5	17/03/2023	4.6-5.6	973234	Fill - CLAY	718	2.958	0.2958	**0.0411862991**	-	-	0.0038	0.0038	0.0005291005	0.0038	10	1.65	-	-	-	-
AQ015_6	17/03/2023	5.6-6.7	973234	Fill - CLAY	794	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-

Table B - Asbestos
Project Number: 69329
Project Name: Green Square Town Centre, Stage 3 - 960A Bourke Street, Zetland

					Asbestos - Laboratory Analysis									Asbestos - Field Quantification					
					Approximate Sample Mass	Mass ACM	Mass Asbestos in ACM	Asbestos from ACM in Soil	Mass FA	Mass Asbestos in FA	Mass AF	Mass asbestos in AF	Asbestos from FA & AF in Soil	Mass Asbestos in FA & AF	Quantification Soil Volume	Assumed Bulk Density	ACM Dimensions	Sample Weight	ACM Weight	ACM Quantification (%w/w)
					g	g	g	% (w/w)	g	g	g	g	% (w/w)	g	L	g/cm	mm	g	g	%(w/w)
EQL					-	-	-	<0.001	-	-	-	-	<0.001	-	-	-	-	-	-	-
NEPM 2013 Table 7 Res B Soil HSL for Asbestos in Soil								0.04[#1]					0.001[#2]							0.04
Sample ID	Date	Depth Range (m)	Report Number	Matrix Description																
AQ015_7	17/03/2023	6.7-7.4	973234	Fill - CLAY	645	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ015_8	17/03/2023	7.4-8	973234	Fill - CLAY	710	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ015_9	17/03/2023	8-8.9	973234	Fill - CLAY	595	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ015_10	17/03/2023	8.9-10.1	973234	Fill - CLAY	517	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ015_11	17/03/2023	10.1-11.3	973234	Fill - CLAY	564	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ015_12	17/03/2023	11.3-12.4	973234	Natural - CLAY	689	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QA10	20/03/2023	11.3-12.4	319142	Natural - CLAY	772	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QC10	17/03/2023	11.3-12.4	973234	Natural - CLAY	817	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ015_13	17/03/2023	12.4-13.3	973234	Natural - CLAY	863	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ015_14	17/03/2023	13.3-14.1	973234	Natural - CLAY	797	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ016-1	16/03/2023	0-1	973249	Fill - SAND	635	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QA09	20/03/2023	0-1	319142	Fill - SAND	622	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QC09	16/03/2023	0-1	973249	Fill - SAND	590	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ016-2	16/03/2023	1-2	973249	Fill - SAND	601	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ016-3	16/03/2023	2-3.1	973249	Fill - SAND	544	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ016-4	16/03/2023	3.1-3.8	973249	Fill - SAND	554	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ016-5	16/03/2023	3.8-5	973249	Fill - SAND	568	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ016-6	16/03/2023	5-6	973249	Fill - SAND	1040	-	-	<0.001	0.0156	0.01248	0.0012	0.0012	0.0013155111	0.01368	10	1.65	-	-	-	-
AQ016-7	16/03/2023	6-7	973249	Fill - SAND	848	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ016-8	16/03/2023	7-8	973249	Fill - SAND	861	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ016-9	16/03/2023	8-9	973249	Fill - SAND	965	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ016-10	16/03/2023	9-10.3	973249	Fill - SAND	809	-	-	<0.001	-	-	0.0019	0.0019	0.000234974	0.0019	10	1.65	-	-	-	-
AQ016-11	16/03/2023	10.3-11	973249	Fill - CLAY	783	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ016-12	16/03/2023	11-12	973249	Fill - CLAY	788	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ016-13	16/03/2023	12-13	973249	Fill - CLAY	718	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ016-14	16/03/2023	13-14	973249	Fill - CLAY	757	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ017_1	17/03/2023	0-1.3	973233	Fill - CLAY	589	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ017_2	17/03/2023	1.3-2.6	973233	Fill - CLAY	699	-	-	<0.001	0.0046	0.00368	-	-	0.0005262405	0.00368	10	1.65	-	-	-	-
AQ017_3	17/03/2023	2.6-3.1	973233	Fill - CLAY	727	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ017_4	17/03/2023	3.1-4.4	973233	Fill - CLAY	725	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ017_5	17/03/2023	4.4-5.5	973233	Fill - CLAY	816	-	-	<0.001	-	-	0.0012	0.0012	0.0001470408	0.0012	10	1.65	-	-	-	-
AQ017_6	17/03/2023	5.5-6.3	973233	Fill - CLAY	766	-	-	<0.001	0.4738	0.33166	-	-	0.0432806995	0.33166	10	1.65	-	-	-	-
AQ017_7	17/03/2023	6.3-7.6	973233	Fill - CLAY	747	0.9029	0.135435	0.0181426658	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ017_8	17/03/2023	7.6-8.7	973233	Fill - CLAY	911	-	-	<0.001	-	-	0.0036	0.0036	0.0003952569	0.0036	10	1.65	-	-	-	-
AQ017_9	17/03/2023	8.7-9	973233	Fill - CLAY	705	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ017_10	17/03/2023	9-10.3	973233	Fill - CLAY	649	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ017_11	17/03/2023	10.3-11	973233	Fill - CLAY	636	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ017_12	17/03/2023	11-12.2	973233	Fill - CLAY	854	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ017_13	17/03/2023	12.2-13.4	973233	Fill - CLAY	564	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QA12	20/03/2023	12.2-13.4	319142	Fill - CLAY	751	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QC12	17/03/2023	12.2-13.4	973233	Fill - CLAY	752	-	-	<0.001	-	-	0.0012	0.0012	0.0001595108	0.0012	10	1.65	-	-	-	-
AQ017_14	17/03/2023	13.4-14.1	973233	Fill - CLAY	746	-	-	<0.001	-	-	0.0016	0.0016	0.0002145923	0.0016	10	1.65	-	-	-	-
AQ018-1	21/03/2023	0-0.7	974304	Fill - SAND	620	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QA21	20/03/2023	0-0.7	319142	Fill - SAND	610	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QC21	21/03/2023	0-0.7	974304	Fill - SAND	604	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ018-2	21/03/2023	0.7-2	974304	Fill - SAND	526	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ018-3	21/03/2023	2-3.5	974304	Fill - SAND	439	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ018-4	21/03/2023	3.5-4.8	974304	Fill - SAND	546	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ018-5	21/03/2023	4.8-5.3	974304	Fill - CLAY	691	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ018-6	21/03/2023	5.3-6.3	974304	Fill - CLAY	729	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ018-7	21/03/2023	6.3-7.3	974304	Fill - CLAY	876	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ018-8	21/03/2023	7.3-8	974304	Fill - CLAY	858	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ018-9	21/03/2023	8-9	974304	Fill - CLAY	721	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ018-10	21/03/2023	9-10	974304	Fill - CLAY	747	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ018-11	21/03/2023	10-10.9	974304	Fill - CLAY	747	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ019-1	21/03/2023	0-0.8	974278	Fill - SAND	716	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ019-2	21/03/2023	0.8-1.9	974278	Fill - SAND	804	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ019-3	21/03/2023	1.9-3.1	974278	Fill - SAND	664	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ019-4	21/03/2023	3.1-4.4	974278	Fill - SAND	779	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ019-5	21/03/2023	4.4-5.1	974278	Fill - SAND	732	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ019-6	21/03/2023	5.1-6.2	974278	Fill - SAND	540	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ020-1	21/03/2023	0-0.9	974652	Fill - SAND	678	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-

Table B - Asbestos
Project Number: 69329
Project Name: Green Square Town Centre, Stage 3 - 960A Bourke Street, Zetland

					Asbestos - Laboratory Analysis									Asbestos - Field Quantification					
					Approximate Sample Mass	Mass ACM	Mass Asbestos in ACM	Asbestos from ACM in Soil	Mass FA	Mass Asbestos in FA	Mass AF	Mass asbestos in AF	Asbestos from FA & AF in Soil	Mass Asbestos in FA & AF	Quantification Soil Volume	Assumed Bulk Density	ACM Dimensions	Sample Weight	ACM Weight	ACM Quantification (%w/w)
					g	g	g	% (w/w)	g	g	g	g	% (w/w)	g	L	g/cm	mm	g	g	%(w/w)
EQL					-	-	-	<0.001	-	-	-	-	<0.001	-	-	-	-	-	-	-
NEPM 2013 Table 7 Res B Soil HSL for Asbestos in Soil								0.04[#1]					0.001[#2]							0.04
Sample ID	**Date**	**Depth Range (m)**	**Report Number**	**Matrix Description**																
QC27	21/03/2023	0-0.9	974652	Fill - SAND	761	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QA27	21/03/2023	0-0.9	319308	Fill - SAND	711	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ020-2	21/03/2023	0.9-2.1	974652	Fill - CLAY	641	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ020-3	21/03/2023	2.1-3.2	974652	Fill - CLAY	608	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ020-4	21/03/2023	3.2-3.9	974652	Fill - SAND	708	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ020-5	21/03/2023	3.9-4.9	974652	Fill - CLAY	912	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ020-6	21/03/2023	4.9-6.2	974652	Reworked Natural - CLAY	523	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ021-1	20/03/2023	0-0.9	974425	Fill - SAND	610	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ021-2	20/03/2023	0.9-1.7	974425	Fill - SAND	632	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QA19	20/03/2023	0.9-1.7	319142	Fill - SAND	627	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QC19	20/03/2023	0.9-1.7	974425	Fill - SAND	625	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ021-3	20/03/2023	1.7-3.8	974425	Fill - SAND	647	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ021-4	20/03/2023	3.8-4.7	974425	Fill - SAND	656	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ021-5	20/03/2023	4.7-5.5	974425	Fill - SAND	869	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ021-6	20/03/2023	5.5-6.1	974425	Fill - SAND	846	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ022-1	20/03/2023	0-0.8	974425	Fill - SAND	665	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ022-2	20/03/2023	0.8-1.7	974425	Fill - SAND	573	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ022-3	20/03/2023	1.7-2.9	974425	Fill - SAND	584	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ022-4	20/03/2023	2.9-4.1	974425	Fill - SAND	641	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ022-5	20/03/2023	4.1-5.1	974425	Fill - SAND	580	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ022-6	20/03/2023	5.1-6.0	974425	Fill - SAND	621	-	-	<0.001	0.0136	0.00544	-	-	0.0008758513	0.00544	10	1.65	-	-	-	-
AQ023-1	21/03/2023	0-0.9	974278	Fill - SAND	750	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	20x20x4	4	0.004	0.003636364
AQ023-2	21/03/2023	0.9-1.8	974278	Fill - SAND	592	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	50x50x3	21	0.021	0.019090909
AQ023-3	21/03/2023	1.8-2.9	974278	Fill - SAND	700	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ023-4	21/03/2023	2.9-4.1	974278	Fill - SAND	670	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ023-5	21/03/2023	4.1-5.3	974278	Fill - SAND	652	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QC23	21/03/2023	4.1-5.3	974278	Fill - SAND	544	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QA23	21/03/2023	4.1-5.3	319308	Fill - SAND	536	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ023-6	21/03/2023	5.3-6	974278	Fill - SAND	711	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ024-1	20/03/2023	0-0.9	974425	Fill - SAND	676	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ024-2	20/03/2023	0.9-1.4	974425	Fill - SAND	545	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ024-3	20/03/2023	1.4-2.8	974425	Fill - SAND	638	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ024-4	20/03/2023	2.8-4.2	974425	Fill - SAND	451	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ024-5	20/03/2023	4.8-5.5	974425	Fill - CLAY	610	-	-	<0.001	2.4828	1.48968	-	-	0.2443299984	1.48968	10	1.65	-	-	-	-
AQ024-6	20/03/2023	5.5-6.2	974425	Fill - CLAY	607	-	-	<0.001	0.1277	0.07662	-	-	0.0126144221	0.07662	10	1.65	-	-	-	-
AQ025-1	21/03/2023	0-1.1	974652	Fill - SAND	588	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ025-2	21/03/2023	1.1-1.9	974652	Fill - SAND	634	-	-	<0.001	0.0071	0.00426	0.0472	0.00944	0.0021598613	0.0137	10	1.65	30x25x3	6	0.006	0.005454545
AQ025-3	21/03/2023	1.9-2.8	974652	Fill - SAND	750	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ025-4	21/03/2023	2.8-4.1	974652	Fill - SAND	708	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ025-5	21/03/2023	4.1-5	974652	Fill - SAND	723	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ025-6	21/03/2023	5-6.0	974652	Fill - SAND	561	-	-	<0.001	-	-	0.0509	0.00509	0.0009079558	0.00509	10	1.65	80x40x5	23	0.023	0.020909091
AQ026-1	21/03/2023	0-1.1	974278	Fill - SAND	664	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ026-2	21/03/2023	1.1-1.8	974278	Fill - SAND	625	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ026-3	21/03/2023	1.8-3.2	974278	Fill - SAND	605	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ026-4	21/03/2023	3.2-4.1	974278	Fill - SAND	896	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ026-5	21/03/2023	4.1-5	974278	Fill - SAND	661	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ026-6	21/03/2023	5-6.1	974278	Fill - SAND	556	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ027-1	21/03/2023	0-0.8	974652	Fill - SAND	702	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ027-2	21/03/2023	0.8-2	974652	Fill - SAND	649	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ027-3	21/03/2023	2-2.9	974652	Fill - SAND	678	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ027-4	21/03/2023	2.9-4.1	974652	Fill - SAND	659	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ027-5	21/03/2023	4.1-5.5	974652	Fill - GRAVEL	431	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ028-1	21/03/2023	0-1.2	974652	Fill - SAND	609	-	-	<0.001	0.0204	0.01224	-	-	0.0020111732	0.01224	10	1.65	-	-	-	-
QC29	21/03/2023	0-1.2	974652	Fill - SAND	588	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QA29	21/03/2023	0-1.2	319308	Fill - SAND	679	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ028-2	21/03/2023	1.2-2.1	974652	Fill - SAND	471	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	25x15x4	4	0.004	0.003636364
AQ028-3	21/03/2023	2.1-3.3	974652	Fill - SAND	833	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ028-4	21/03/2023	3.3-4.6	974652	Fill - SAND	738	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ028-5	21/03/2023	4.6-5.1	974652	Reworked Natural - CLAY	945	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-

Env Stds Comments
#1:Residential with minimal opportunites for soil access
#2:Only applies where the FA and AF are able to be quantified by gravimetric procedures (refer Section 4.10). This screening level is not applicable to free fibres.

Table C - Groundwater
Project Number: 69329
Project Name: SSDA Stage 3, 960A Bourke Street, Zetland

	Metals & Metalloids							
	Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	0.001	0.0002	0.001	0.001	0.001	0.0001	0.001	0.005
ADWG (2011) Health x 10 (Recreational) - Updated March-2021	0.1	0.02	0.5 #1	20	0.1	0.01	0.2	#2
ANZG (2018) Marine water 95% toxicant DGVs		0.0055 #11	0.0044 #12	0.0013 #13	0.0044 #14	0.0004 #15	0.07 #15	0.008 #16
NEPM 2013 Table 1A(4) Res HSL A/B GW for Vapour Intrusion, Sand								
>=2m, <4m								
>=4m, <8m								
>=8m								

Field ID	Date	Lab Report Number							
GW4/BH8	24 May 2007	HLA 2007 (Incinerator)	0.11	<0.0001	<0.001	<0.001	<0.001	0.0001	0.016	0.015
DUP1 (intra- lab Duplicate)	24/05/2007	HLA 2007 (Incinerator)	0.09	<0.0001	<0.001	<0.001	<0.001	0.0001	0.017	0.008
BHI3	14 Feb 2011	Coffey 2011	0.002	<0.0001	<0.001	<0.001	0.007	<0.0001	0.001	0.13
BHI4	14 Feb 2011	Coffey 2011	0.002	<0.0001	<0.001	0.001	0.002	<0.0001	0.002	0.39
JBMW01	19 Dec 2017	578413	<0.001	<0.0002	<0.001	<0.001	<0.001	<0.0001	0.001	0.015
JBMW03	19 Dec 2017	578413	0.007	<0.0002	<0.001	0.002	0.027	<0.0001	0.003	0.016
PZ02	08 Feb 2023	962175	<0.001	<0.0002	<0.001	0.017	<0.001	<0.0001	0.001	0.014
PZ03	08 Feb 2023	962175	<0.001	<0.0002	<0.001	0.008	<0.001	<0.0001	0.002	0.071

Comments
#1 Adopted from Chromium (as CrVI)
#2 Insufficient data to set a guideline value based on health considerations
#3 Adopted from Total Xylene

#4 Notated in Table 10.6 as Polycyclic Aromatic Aydrocarbons (PAHs) Benzo-(a)-pyrene
#5 (Methylene Chloride)
#6 Adopted from US EPA RSL - Tapwater (November 2015) - THQ = 0.1
#7 No corresponding fact sheet for these pesticides. Retained in Table 10.6 for information purposes only.
#8 Calculated using ratio of molecular weight of N and O to NHMRC Guideline Value of 50mg/L for Nitrate and Nitrate
#9 Calculated using ratio of molecular weight of N and O to NHMRC Guideline Value of 3mg/L for Nitrate and Nitrate
#10 Not necessary
#11 Very High Reliability DGV may not protect key test species from chronic toxicity (this refers to experimental chronic values or geometric mean for species). Check the resources listed in Read the detail, below, for spread of data and its significance.
#12 Very High Reliability Recommended for application for slightly to moderately disturbed ecosystems. Adopted from Chromium (CrVI)
#13 Very High Reliability Recommended for application for slightly to moderately disturbed ecosystems.
#14 Low Reliability Recommended for application for slightly to moderately disturbed ecosystems.
#15 Very High Reliability DGV may not protect key test species from chronic toxicity. Check toxicant DGV technical brief the resources listed in Read the detail, below, for spread of data and its significance.

#16 Very High Reliability. The DGVs apply to water with salinity 25–36 ppt and pH 6.5–8.0.

#17 Moderate Reliability DGV may not protect key test species from chronic toxicity (this refers to experimental chronic values or geometric mean for species). Check the resources listed in Read the detail, below, for spread of data and its significance.
#18 Unknown Reliability Recommended for application for slightly to moderately disturbed ecosystems.
#19 Adopted from m-Xylene
#20 Moderate Reliability DGV may not protect key test species from chronic toxicity. Check toxicant DGV technical brief the resources listed in Read the detail, below, for spread of data and its significance.
#21 Unknown Reliability
#22 Very Low Reliability Recommended for application for slightly to moderately disturbed ecosystems.

#23 Unknown Reliability DGV may not protect key test species from chronic toxicity. Check toxicant DGV technical brief and Read the detail, below, for spread of data and its significance.
#24 Moderate Reliability Recommended for application for slightly to moderately disturbed ecosystems.
#25 Low Reliability
#26 Moderate Reliability. Check guidelines for more details.

#27 To obtain F1 subtract the sum of BTEX concentrations from the C6 - C10 fraction.
#28 To obtain F2 subtract napthalene from the >C10 - C16 fraction.

Environmental Standards
ANZG, 2018, ANZG (2018) Marine water 95% toxicant DGVs

Table C - Groundwater
Project Number: 69329
Project Name: SSDA Stage 3, 960A Bourke Street, Zetland

	TPHs (NEPC 1999)					TRHs (NEPC 2013)							BTEXN						
	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum of Total)	C6-C10	C10-C16	C16-C34	C34-C40	C10-C40 (Sum of total)	F1 (C6-C10 minus BTEX)	F2 (C10-C16 less Naphthalene)	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Naphthalene_VOC
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	0.02	0.05	0.1	0.1	0.1	0.02	0.05	0.1	0.1	0.1	0.02	0.05	0.001	0.001	0.001	0.001	0.002	0.003	0.01
ADWG (2011) Health x 10 (Recreational) - Updated March-2021													0.01	8	3	6[#3]	6[#3]	6	
ANZG (2018) Marine water 95% toxicant DGVs													0.7[#17]	0.18[#18]	0.08[#18]		0.075[#19]		0.07[#20]
NEPM 2013 Table 1A(4) Res HSL A/B GW for Vapour Intrusion, Sand											1 | 1 | 1[#27]	1 | 1 | 1[#28]	0.8 | 0.9 | 0.8						
>=2m, <4m											1[#27]	1[#28]	0.8						
>=4m, <8m											1	1	0.9						
>=8m											1	1	0.8						

Field ID	Date	Lab Report Number																	
GW4/BH8	24 May 2007	HLA 2007 (Incinerator)	<0.05	<0.05	<0.2	0.18	0.18	-	-	-	-	-	-	-	<0.001	<1	<0.001	<0.001	<0.002	-	-
DUP1 (intra- lab Duplicate)	24/05/2007	HLA 2007 (Incinerator)	<0.05	<0.05	0.23	0.22	0.45	-	-	-	-	-	-	-	<0.001	<1	<0.001	<0.001	<0.002	-	-
BHI3	14 Feb 2011	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	-	-	-	-
BHI4	14 Feb 2011	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	-	-	-	-
JBMW01	19 Dec 2017	578413	<0.02	<0.05	<0.1	<0.1	<0.1	<0.02	<0.05	<0.1	<0.1	-	<0.02	<0.05	<0.001	<0.001	<0.001	<0.001	<0.002	<0.003	-
JBMW03	19 Dec 2017	578413	<0.02	<0.05	<0.1	<0.1	<0.1	<0.02	<0.05	<0.1	<0.1	-	<0.02	<0.05	<0.001	<0.001	<0.001	<0.001	<0.002	<0.003	-
PZ02	08 Feb 2023	962175	<0.02	<0.05	<0.1	<0.1	<0.1	<0.02	<0.05	<0.1	<0.1	<0.1	<0.02	<0.05	-	-	-	-	-	-	<0.01
PZ03	08 Feb 2023	962175	<0.02	<0.05	<0.1	<0.1	<0.1	<0.02	<0.05	<0.1	<0.1	<0.1	<0.02	<0.05	-	-	-	-	-	-	<0.01

Comments
#1 Adopted from Chromium (as CrVI)
#2 Insufficient data to set a guideline value based on health considerations
#3 Adopted from Total Xylene

#4 Notated in Table 10.6 as Polycyclic Aromatic Aydrocarbons (PAHs) Benzo-(a)-pyrene
#5 (Methylene Chloride)
#6 Adopted from US EPA RSL - Tapwater (November 2015) - THQ = 0.1
#7 No corresponding fact sheet for these pesticides. Retained in Table 10.6 for information purposes only.
#8 Calculated using ratio of molecular weight of N and O to NHMRC Guideline Value of 50mg/L for Nitrate and Nitrate
#9 Calculated using ratio of molecular weight of N and O to NHMRC Guideline Value of 3mg/L for Nitrate and Nitrate
#10 Not necessary
#11 Very High Reliability DGV may not protect key test species from chronic toxicity (this refers to experimental chronic values or geometric mean for species). Check the resources listed in Read the detail, below, for spread of data and its significance.
#12 Very High Reliability Recommended for application for slightly to moderately disturbed ecosystems. Adopted from Chromium (CrVI)
#13 Very High Reliability Recommended for application for slightly to moderately disturbed ecosystems.
#14 Low Reliability Recommended for application for slightly to moderately disturbed ecosystems.
#15 Very High Reliability DGV may not protect key test species from chronic toxicity. Check toxicant DGV technical brief the resources listed in Read the detail, below, for spread of data and its significance.

#16 Very High Reliability. The DGVs apply to water with salinity 25–36 ppt and pH 6.5–8.0.

#17 Moderate Reliability DGV may not protect key test species from chronic toxicity (this refers to experimental chronic values or geometric mean for species). Check the resources listed in Read the detail, below, for spread of data and its significance.
#18 Unknown Reliability Recommended for application for slightly to moderately disturbed ecosystems.
#19 Adopted from m-Xylene
#20 Moderate Reliability DGV may not protect key test species from chronic toxicity. Check toxicant DGV technical brief the resources listed in Read the detail, below, for spread of data and its significance.
#21 Unknown Reliability
#22 Very Low Reliability Recommended for application for slightly to moderately disturbed ecosystems.

#23 Unknown Reliability DGV may not protect key test species from chronic toxicity. Check toxicant DGV technical brief and Read the detail, below, for spread of data and its significance.
#24 Moderate Reliability Recommended for application for slightly to moderately disturbed ecosystems.
#25 Low Reliability
#26 Moderate Reliability. Check guidelines for more details.

#27 To obtain F1 subtract the sum of BTEX concentrations from the C6 - C10 fraction.
#28 To obtain F2 subtract napthalene from the >C10 - C16 fraction.

Environmental Standards
ANZG, 2018, ANZG (2018) Marine water 95% toxicant DGVs

Table C - Groundwater
Project Number: 69329
Project Name: SSDA Stage 3, 960A Bourke Street, Zetland

	PAH																							
	2-Methylnaphthalene	3-Methylcholanthrene	7,12-Dimethylbenz(a)anthracene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b+j)fluoranthene	Benzo(b+k)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	PAHs (Sum of total)	Carcinogenic PAHs as B(a)P TEQ	2-(acetylamino) fluorene
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	0.002	0.002	0.002	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001		0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001		
ADWG (2011) Health x 10 (Recreational) - Updated March-2021								0.0001[#4]															
ANZG (2018) Marine water 95% toxicant DGVs						0.0004[#21]		0.0002[#21]							0.0014[#21]			0.07[#20]	0.002[#21]				
NEPM 2013 Table 1A(4) Res HSL A/B GW for Vapour Intrusion, Sand																							
>=2m, <4m																							
>=4m, <8m																							
>=8m																							
GW4/BH8	24 May 2007	HLA 2007 (Incinerator)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-	<0.004	<0.002	-	<0.002	<0.002	0.002	<0.002	<0.002	<0.002	0.002	<0.002	-	-	<0.002
DUP1 (intra- lab Duplicate)	24/05/2007	HLA 2007 (Incinerator)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-	<0.004	<0.002	-	<0.002	<0.002	0.002	<0.002	<0.002	<0.002	0.002	0.002	-	-	<0.002
BHI3	14 Feb 2011	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHI4	14 Feb 2011	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JBMW01	19 Dec 2017	578413	-	-	-	<0.00005	<0.00005	<0.00005	<0.00005	0.00002	<0.00005	-	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.00002	-
JBMW03	19 Dec 2017	578413	-	-	-	<0.00005	<0.00005	<0.00005	<0.00005	0.00002	<0.00005	-	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.00002	-
PZ02	08 Feb 2023	962175	-	-	-	<0.00001	0.00002	0.00002	0.00009	0.00007	0.00007	-	<0.00005	0.00006	0.00008	<0.00005	0.00009	<0.00001	<0.00005	0.00018	0.00004	0.00009	0.00081	-	-
PZ03	08 Feb 2023	962175	-	-	-	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	-	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.00003	<0.00001	<0.00001	0.00003	-	-

Comments
#1 Adopted from Chromium (as CrVI)
#2 Insufficient data to set a guideline value based on health considerations
#3 Adopted from Total Xylene

#4 Notated in Table 10.6 as Polycyclic Aromatic Aydrocarbons (PAHs) Benzo-(a)-pyrene
#5 (Methylene Chloride)
#6 Adopted from US EPA RSL - Tapwater (November 2015) - THQ = 0.1
#7 No corresponding fact sheet for these pesticides. Retained in Table 10.6 for information purposes only.
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#9 Calculated using ratio of molecular weight of N and O to NHMRC Guideline Value of 3mg/L for Nitrate and Nitrate
#10 Not necessary
#11 Very High Reliability DGV may not protect key test species from chronic toxicity (this refers to experimental chronic values or geometric mean for species). Check the resources listed in Read the detail, below, for spread of data and its significance.
#12 Very High Reliability Recommended for application for slightly to moderately disturbed ecosystems. Adopted from Chromium (CrVI)
#13 Very High Reliability Recommended for application for slightly to moderately disturbed ecosystems.
#14 Low Reliability Recommended for application for slightly to moderately disturbed ecosystems.
#15 Very High Reliability DGV may not protect key test species from chronic toxicity. Check toxicant DGV technical brief the resources listed in Read the detail, below, for spread of data and its significance.

#16 Very High Reliability. The DGVs apply to water with salinity 25–36 ppt and pH 6.5–8.0.

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#19 Adopted from m-Xylene
#20 Moderate Reliability DGV may not protect key test species from chronic toxicity. Check toxicant DGV technical brief the resources listed in Read the detail, below, for spread of data and its significance.
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#22 Very Low Reliability Recommended for application for slightly to moderately disturbed ecosystems.

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#25 Low Reliability
#26 Moderate Reliability. Check guidelines for more details.

#27 To obtain F1 subtract the sum of BTEX concentrations from the C6 - C10 fraction.
#28 To obtain F2 subtract napthalene from the >C10 - C16 fraction.

Environmental Standards
ANZG, 2018, ANZG (2018) Marine water 95% toxicant DGVs

Table C - Groundwater
Project Number: 69329
Project Name: SSDA Stage 3, 960A Bourke Street, Zetland

	Organochlorine Pesticides																				
	Pentachlorophenol	4,4-DDE	a-BHC	b-BHC	d-BHC	g-BHC (Lindane)	Aldrin	Dieldrin	Aldrin + Dieldrin	Chlordane (cis)	Chlordane (trans)	DDD	DDT+DDE+DDD	Endosulfan I	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor Epoxide	Methoxychlor
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L	mg/L	mg/L	mg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL																					
ADWG (2011) Health x 10 (Recreational) - Updated March-2021	0.1					0.1	0.003[#6]	0.003[#6]	0.003[#6]					200					0.003		3[#7]
ANZG (2018) Marine water 95% toxicant DGVs	0.022[#26]													0.01[#26]		0.000008[#26]					
NEPM 2013 Table 1A(4) Res HSL A/B GW for Vapour Intrusion, Sand																					
>=2m, <4m																					
>=4m, <8m																					
>=8m																					

Field ID	Date	Lab Report Number																				
GW4/BH8	24 May 2007	HLA 2007 (Incinerator)	<0.004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-	<2	<0.002	<0.002	0	<2	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
DUP1 (intra- lab Duplicate)	24/05/2007	HLA 2007 (Incinerator)	<0.004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-	<2	<0.002	<0.002	0	<2	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
BHI3	14 Feb 2011	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHI4	14 Feb 2011	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JBMW01	19 Dec 2017	578413	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JBMW03	19 Dec 2017	578413	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PZ02	08 Feb 2023	962175	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PZ03	08 Feb 2023	962175	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Comments
#1 Adopted from Chromium (as CrVI)
#2 Insufficient data to set a guideline value based on health considerations
#3 Adopted from Total Xylene

#4 Notated in Table 10.6 as Polycyclic Aromatic Aydrocarbons (PAHs) Benzo-(a)-pyrene
#5 (Methylene Chloride)
#6 Adopted from US EPA RSL - Tapwater (November 2015) - THQ = 0.1
#7 No corresponding fact sheet for these pesticides. Retained in Table 10.6 for information purposes only.
#8 Calculated using ratio of molecular weight of N and O to NHMRC Guideline Value of 50mg/L for Nitrate and Nitrate
#9 Calculated using ratio of molecular weight of N and O to NHMRC Guideline Value of 3mg/L for Nitrate and Nitrate
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#11 Very High Reliability DGV may not protect key test species from chronic toxicity (this refers to experimental chronic values or geometric mean for species). Check the resources listed in Read the detail, below, for spread of data and its significance.
#12 Very High Reliability Recommended for application for slightly to moderately disturbed ecosystems. Adopted from Chromium (CrVI)
#13 Very High Reliability Recommended for application for slightly to moderately disturbed ecosystems.
#14 Low Reliability Recommended for application for slightly to moderately disturbed ecosystems.
#15 Very High Reliability DGV may not protect key test species from chronic toxicity. Check toxicant DGV technical brief the resources listed in Read the detail, below, for spread of data and its significance.

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Environmental Standards
ANZG, 2018, ANZG (2018) Marine water 95% toxicant DGVs

Table C - Groundwater
Project Number: 69329
Project Name: SSDA Stage 3, 960A Bourke Street, Zetland

	Organophosphorus Pesticides																													
	Azinophos methyl	Chlorpyrifos	Coumaphos	Demeton-O	Demeton-S	Diazinon	Dichlorvos	Dimethoate	Disulfoton	EPN	Ethoprop	Ethyl methanesulfonate	Fenitrothion	Fensulfothion	Fenthion	Malathion	Methyl methanesulfonate	Methyl parathion	Mevinphos (Phosdrin)	Naled (Dibrom)	Phorate	Prothiofos	Ronnel	Safrole	Stirophos	Trichloronate	Parathion	Profenofos
	mg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL																														
ADWG (2011) Health x 10 (Recreational) - Updated March-2021	0.3	100				0.04	0.05	0.07	0.04		0.01		0.07	0.1[#7]	0.07	0.7		0.007	0.05								0.2	0.003
ANZG (2018) Marine water 95% toxicant DGVs		0.009[#25]																												
NEPM 2013 Table 1A(4) Res HSL A/B GW for Vapour Intrusion, Sand																														
>=2m, <4m																														
>=4m, <8m																														
>=8m																														

Field ID	Date	Lab Report Number																													
GW4/BH8	24 May 2007	HLA 2007 (Incinerator)	<0.002	<2	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
DUP1 (intra- lab Duplicate)	24/05/2007	HLA 2007 (Incinerator)	<0.002	<2	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
BHI3	14 Feb 2011	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHI4	14 Feb 2011	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JBMW01	19 Dec 2017	578413	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JBMW03	19 Dec 2017	578413	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PZ02	08 Feb 2023	962175	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PZ03	08 Feb 2023	962175	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Comments
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#3 Adopted from Total Xylene

#4 Notated in Table 10.6 as Polycyclic Aromatic Aydrocarbons (PAHs) Benzo-(a)-pyrene
#5 (Methylene Chloride)
#6 Adopted from US EPA RSL - Tapwater (November 2015) - THQ = 0.1
#7 No corresponding fact sheet for these pesticides. Retained in Table 10.6 for information purposes only.
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Environmental Standards
ANZG, 2018, ANZG (2018) Marine water 95% toxicant DGVs

Table C - Groundwater
Project Number: 69329
Project Name: SSDA Stage 3, 960A Bourke Street, Zetland

	Chlorinated Alkanes																		Chlorinated Alkenes									
	1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,2,3-trichloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	Bromochloromethane	Carbon tetrachloride	Chloroethane	Chloromethane	Dichlorodifluoromethane	Dichloromethane	Hexachloroethane	Pentachloroethane	Trichlorofluoromethane	Vinyl Chloride	1,1-dichloroethene	3-chloropropene	4-chlorotoluene	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Trichloroethene
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	uS/cm	uS/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001			0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
ADWG (2011) Health x 10 (Recreational) - Updated March-2021		#2			#2		0.03					0.03				0.04 #5				0.003	0.3			0.6		0.5	0.6		#2
ANZG (2018) Marine water 95% toxicant DGVs		0.27 #18	0.4 #18	1.9 #22			1.9 #18	0.9 #18	1.1 #18			0.24 #18				4 #18				0.1 #18	0.7 #18					0.07 #18			0.33 #18
NEPM 2013 Table 1A(4) Res HSL A/B GW for Vapour Intrusion, Sand																													
>=2m, <4m																													
>=4m, <8m																													
>=8m																													

Field ID	Date	Lab Report Number																												
GW4/BH8	24 May 2007	HLA 2007 (Incinerator)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.002	<0.002	-	-	-	-	-	-	-	-	-	-	-	-
DUP1 (intra- lab Duplicate)	24/05/2007	HLA 2007 (Incinerator)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.002	<0.002	-	-	-	-	-	-	-	-	-	-	-	-
BHI3	14 Feb 2011	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHI4	14 Feb 2011	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JBMW01	19 Dec 2017	578413	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
JBMW03	19 Dec 2017	578413	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PZ02	08 Feb 2023	962175	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PZ03	08 Feb 2023	962175	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Comments
#1 Adopted from Chromium (as CrVI)
#2 Insufficient data to set a guideline value based on health considerations
#3 Adopted from Total Xylene

#4 Notated in Table 10.6 as Polycyclic Aromatic Aydrocarbons (PAHs) Benzo-(a)-pyrene
#5 (Methylene Chloride)
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Environmental Standards
ANZG, 2018, ANZG (2018) Marine water 95% toxicant DGVs

Table C - Groundwater
Project Number: 69329
Project Name: SSDA Stage 3, 960A Bourke Street, Zetland

	Semivolatile Organic Compounds																											Solvents	
	2-Chloronaphthalene	Bis(2-chloroethoxy) methane	Hexachloropropene	Acetophenone	Bis(2-chloroethyl)ether	Bis(2-chloroisopropyl) ether	4-Bromophenyl phenyl ether	4-Chlorophenyl phenyl ether	2,6-dinitrotoluene	4-Aminobiphenyl	N-Nitrosomorpholine	N-Nitrosopiperidine	N-Nitrosopyrrolidine	2-methyl-5-nitroaniline	N-Nitrosodiethylamine	N-nitrosodi-n-butylamine	N-nitrosodi-n-propylamine	1-Naphthylamine	2-Naphthylamine	4-(dimethylamino) azobenzene	Azobenzene	Diphenylamine	Carbazole	Butyl benzyl phthalate	Dibenzofuran	Isosafrole	Phenacetin	Acetone	Isophorone
	uS/cm	uS/cm	uS/cm	uS/cm	uS/cm	uS/cm	uS/cm	uS/cm	uS/cm	uS/cm	uS/cm	uS/cm	uS/cm	uS/cm	uS/cm	uS/cm	uS/cm	uS/cm	uS/cm	uS/cm	uS/cm	uS/cm	uS/cm	uS/cm	uS/cm	uS/cm	uS/cm	uS/cm	mg/L	mg/L
EQL																												0.001	
ADWG (2011) Health x 10 (Recreational) - Updated March-2021																												140[#6]	
ANZG (2018) Marine water 95% toxicant DGVs																													
NEPM 2013 Table 1A(4) Res HSL A/B GW for Vapour Intrusion, Sand																													
>=2m, <4m																													
>=4m, <8m																													
>=8m																													
Field ID **Date** **Lab Report Number**																													
GW4/BH8 24 May 2007 HLA 2007 (Incinerator)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.004	<0.002	<0.002	<0.002	<0.004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-	<0.002
DUP1 (intra- lab Duplicate) 24/05/2007 HLA 2007 (Incinerator)	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.004	<0.002	<0.002	<0.002	<0.004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-	<0.002
BHI3 14 Feb 2011 Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHI4 14 Feb 2011 Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JBMW01 19 Dec 2017 578413	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001	-
JBMW03 19 Dec 2017 578413	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PZ02 08 Feb 2023 962175	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PZ03 08 Feb 2023 962175	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Comments
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Environmental Standards
ANZG, 2018, ANZG (2018) Marine water 95% toxicant DGVs

Table C - Groundwater
Project Number: 69329
Project Name: SSDA Stage 3, 960A Bourke Street, Zetland

	Polychlorinated Biphenyls						Phenols											MAH							Miscellaneous Hydrocarbons							
	Arochlor 1016	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	2,3,4,6-tetrachlorophenol	2,4,5-trichlorophenol	2,4,6-trichlorophenol	2,4-dichlorophenol	2,4-dimethylphenol	2,6-dichlorophenol	2-chlorophenol	2-Methylphenol	2-nitrophenol	3&4-Methylphenol (m&p-cresol)	4-Chloro-3-Methylphenol	Phenol	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	Styrene	Total MAH	Bromobenzene	Bromobenzene	Isopropylbenzene	1,2-dibromoethane	Bromomethane	Bromomethane	Dibromomethane	Dibromomethane	Iodomethane	4-Methyl-2-pentanone	Methyl Ethyl Ketone
	uS/cm	uS/cm	uS/cm	uS/cm	uS/cm	uS/cm	uS/cm	uS/cm	uS/cm	uS/cm	uS/cm	uS/cm	uS/cm	uS/cm	uS/cm	uS/cm	uS/cm	uS/cm	mg/L	mg/L	mg/L	mg/L	uS/cm	mg/L	mg/L	mg/L	uS/cm	mg/L	mg/L	mg/L	mg/L	mg/L
EQL																			0.001	0.001	0.001	0.003		0.001	0.001	0.001		0.001		0.001	0.001	0.001	0.001
ADWG (2011) Health x 10 (Recreational) - Updated March-2021									0.2	2				3							0.3					0.01[#7]		0.01					
ANZG (2018) Marine water 95% toxicant DGVs																		0.4[#24]							0.03[#18]							
NEPM 2013 Table 1A(4) Res HSL A/B GW for Vapour Intrusion, Sand																																
>=2m, <4m																																
>=4m, <8m																																
>=8m																																
Field ID	**Date**	**Lab Report Number**																														
GW4/BH8	24 May 2007	HLA 2007 (Incinerator)	<0.005	<0.005	<0.005	<0.005	<0.005	<5	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.004	<0.002	<0.002	-	-	-	-	-	-	-	-	-	-	-	-
DUP1 (intra- lab Duplicate)	24/05/2007	HLA 2007 (Incinerator)	<0.005	<0.005	<0.005	<0.005	<0.005	<5	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.004	<0.002	<0.002	-	-	-	-	-	-	-	-	-	-	-	-
BHI3	14 Feb 2011	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHI4	14 Feb 2011	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JBMW01	19 Dec 2017	578413	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001	<0.001	<0.001	<0.003	-	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	<0.001
JBMW03	19 Dec 2017	578413	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PZ02	08 Feb 2023	962175	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PZ03	08 Feb 2023	962175	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Comments
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#2 Insufficient data to set a guideline value based on health considerations
#3 Adopted from Total Xylene

#4 Notated in Table 10.6 as Polycyclic Aromatic Aydrocarbons (PAHs) Benzo-(a)-pyrene
#5 (Methylene Chloride)
#6 Adopted from US EPA RSL - Tapwater (November 2015) - THQ = 0.1
#7 No corresponding fact sheet for these pesticides. Retained in Table 10.6 for information purposes only.
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Environmental Standards
ANZG, 2018, ANZG (2018) Marine water 95% toxicant DGVs

Table C - Groundwater
Project Number: 69329
Project Name: SSDA Stage 3, 960A Bourke Street, Zetland

			Chlorinated Benzenes								Trihalomethanes				Phthalates				
			1,2,3-trichlorobenzene	1,2,4,5-tetrachlorobenzene	1,2,4-trichlorobenzene	1,2-Dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Chlorobenzene	Pentachlorobenzene	Dibromochloromethane	Chloroform	Tribromomethane	Bromodichloromethane	Bis(2-ethylhexyl) phthalate	Diethylphthalate	Dimethyl phthalate	Di-n-butyl phthalate	Di-n-octyl phthalate
			uS/cm	uS/cm	uS/cm	mg/L	mg/L	mg/L	mg/L	uS/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL						0.001	0.001	0.001	0.001		0.001	0.005	0.001	0.001					
ADWG (2011) Health x 10 (Recreational) - Updated March-2021						15	[#2]	0.4	3						0.1				
ANZG (2018) Marine water 95% toxicant DGVs									0.055[#18]			0.77[#23]							
NEPM 2013 Table 1A(4) Res HSL A/B GW for Vapour Intrusion, Sand																			
>=2m, <4m																			
>=4m, <8m																			
>=8m																			
Field ID	**Date**	**Lab Report Number**																	
GW4/BH8	24 May 2007	HLA 2007 (Incinerator)	-	<0.002	<0.002	<0.002	<0.002	<0.002	-	<0.002	-	-	-	-	<0.02	<0.002	<0.002	<0.002	<0.002
DUP1 (intra- lab Duplicate)	24/05/2007	HLA 2007 (Incinerator)	-	<0.002	<0.002	<0.002	<0.002	<0.002	-	<0.002	-	-	-	-	<0.02	<0.002	<0.002	<0.002	<0.002
BHI3	14 Feb 2011	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHI4	14 Feb 2011	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JBMW01	19 Dec 2017	578413	-	-	-	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.005	<0.001	<0.001	-	-	-	-	-
JBMW03	19 Dec 2017	578413	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PZ02	08 Feb 2023	962175	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PZ03	08 Feb 2023	962175	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Environmental Standards
ANZG, 2018, ANZG (2018) Marine water 95% toxicant DGVs

Table C - Groundwater
Project Number: 69329
Project Name: SSDA Stage 3, 960A Bourke Street, Zetland

	Nitrobenzenes			Nitrotoluenes	Anilines						Organic Sulfur Compounds	Organic Alcohols	Non-Metallic Inorganics			Ionic Balance		EPA VIC - IWRG621		Inorganics	Chlorinated Hydrocarbons		Other				Pesticides
	Nitrobenzene	1,4-dinitrobenzene	Pentachloronitrobenzene	2,4-dinitrotoluene	2-methylaniline	2-Nitroaniline	3-Nitroaniline	4-Chloroaniline	4-Nitroaniline	Aniline	Carbon disulfide	Benzyl Alcohol	Ammonia as N	Nitrate (as N)	Nitrite (as N)	Electrical Conductivity (Lab)	pH (Lab)	Chlorinated Hydrocarbons EPAVic	Other Chlorinated Hydrocarbons EPAVic	Nitrite + Nitrate as N	Hexachlorocyclopentadiene	Hexachlorobutadiene	TDS	TSS	Total DDT	Turbidity	Sulfotepp
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µS/cm	pH Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	-	mg/L
EQL											0.001		0.01	0.02	0.02	1	0.1	0.005	0.005	0.05			10	1		1	
ADWG (2011) Health x 10 (Recreational) - Updated March-2021			0.3										#2	112.9[#8]	9.1[#9]		#2					0.007	#10			#2	
ANZG (2018) Marine water 95% toxicant DGVs													0.91[#24]														
NEPM 2013 Table 1A(4) Res HSL A/B GW for Vapour Intrusion, Sand																											
>=2m, <4m																											
>=4m, <8m																											
>=8m																											

Field ID	Date	Lab Report Number																									
GW4/BH8	24 May 2007	HLA 2007 (Incinerator)	<0.002	<0.002	<0.002	<0.004	<0.002	<0.004	<0.004	<0.002	<0.002	<0.002	-	<0.002	0	<0.01	0.02	-	-	-	-	-	<0.004	<0.002	-	-	<0.004		<0.002
DUP1 (intra- lab Duplicate)	24/05/2007	HLA 2007 (Incinerator)	<0.002	<0.002	<0.002	<0.004	<0.002	<0.004	<0.004	<0.002	<0.002	<0.002	-	<0.002	3.1	0.02	<0.01	-	-	-	-	-	<0.004	<0.002	-	-	<0.004		<0.002
BHI3	14 Feb 2011	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHI4	14 Feb 2011	Coffey 2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JBMW01	19 Dec 2017	578413	-	-	-	-	-	-	-	-	-	-	<0.001	-	0.09	0.21	<0.02	390	6.1	<0.005	<0.005	-	-	-	210	31	-	62	-
JBMW03	19 Dec 2017	578413	-	-	-	-	-	-	-	-	-	-	-	-	4.5	0.29	0.12	-	-	-	-	-	-	-	-	-	-	-	-
PZ02	08 Feb 2023	962175	-	-	-	-	-	-	-	-	-	-	-	-	<0.01	-	-	310	5.1	-	-	0.27	-	-	-	<5	-	-	-
PZ03	08 Feb 2023	962175	-	-	-	-	-	-	-	-	-	-	-	-	<0.01	-	-	990	7.0	-	-	0.24	-	-	-	<5	-	-	-

Comments
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#2 Insufficient data to set a guideline value based on health considerations
#3 Adopted from Total Xylene

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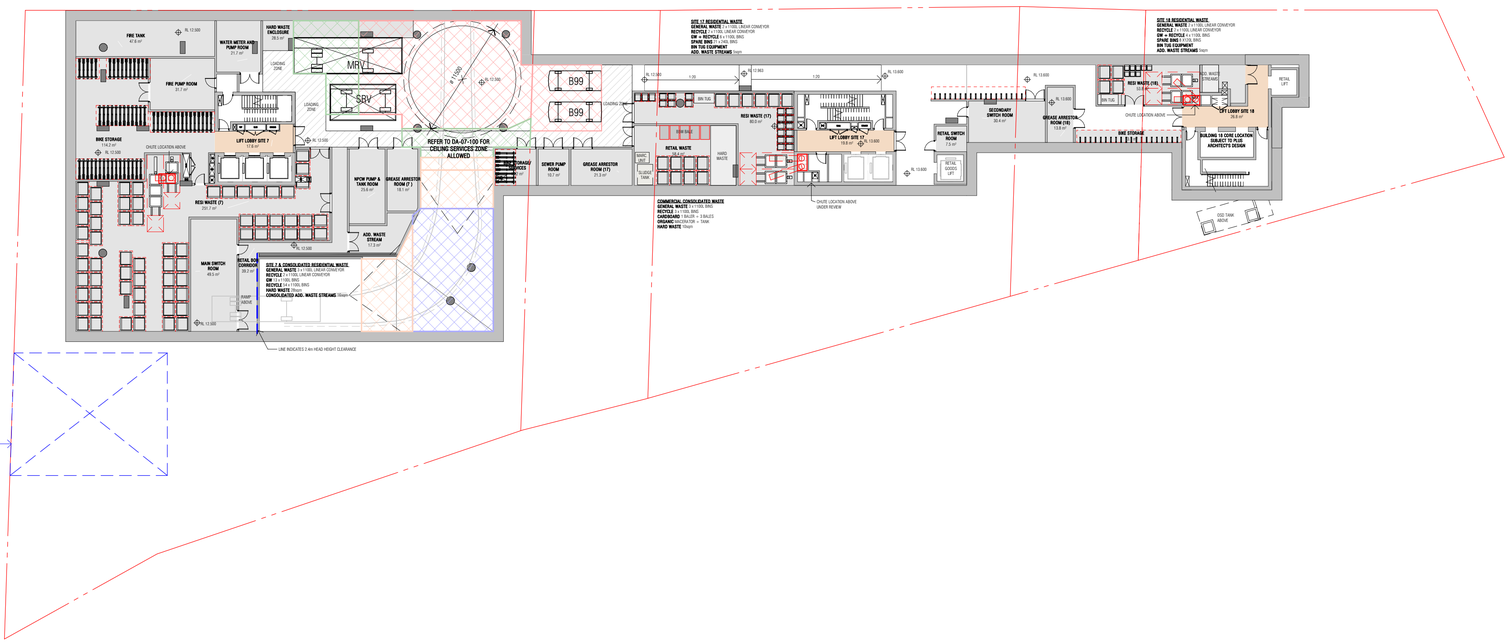
Environmental Standards
ANZG, 2018, ANZG (2018) Marine water 95% toxicant DGVs

Appendix A Proposed Development Plans

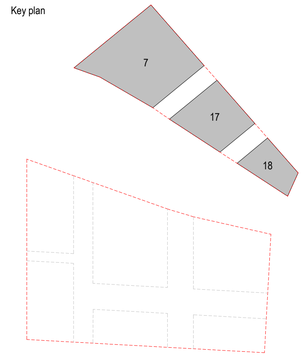
BICYCLE PARKING SCHEDULE			
LEVEL	RESIDENTIAL	RETAIL	TOTAL
BASEMENT	170	0	170
LEVEL 1	0	5	5
TOTAL	170	5	175



FOOTPRINT OF TRIPLE CHAMBER SUBSTATION SHOWN DASHED IN BLUE

2 BASEMENT PRECINCT PLAN
SCALE1 : 300

Key plan



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date	rev	amendment
24/10/2025	P3	PRELIMINARY
17/10/2025	P2	PRELIMINARY
02/10/2025	P1	PRELIMINARY

* For previous versions refer to Document Control history

Client

mirvac

Executive architect

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interior design
graphic design

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NEW SOUTH WALES 2000 AUSTRALIA
TELEPHONE: +61 2 8216 3500
FENDER KATSALIDIS (AUST) PTY LTD ACN 080 949 032

project:
GREEN SQUARE STAGE 3
497 BOTANY RD, ZETLAND NSW 2017

title:
PRECINCT BASEMENT PLAN

drawing no: DA-0-100
scale: 1 : 300 @ A1
rev: P3
date: 24/10/2025

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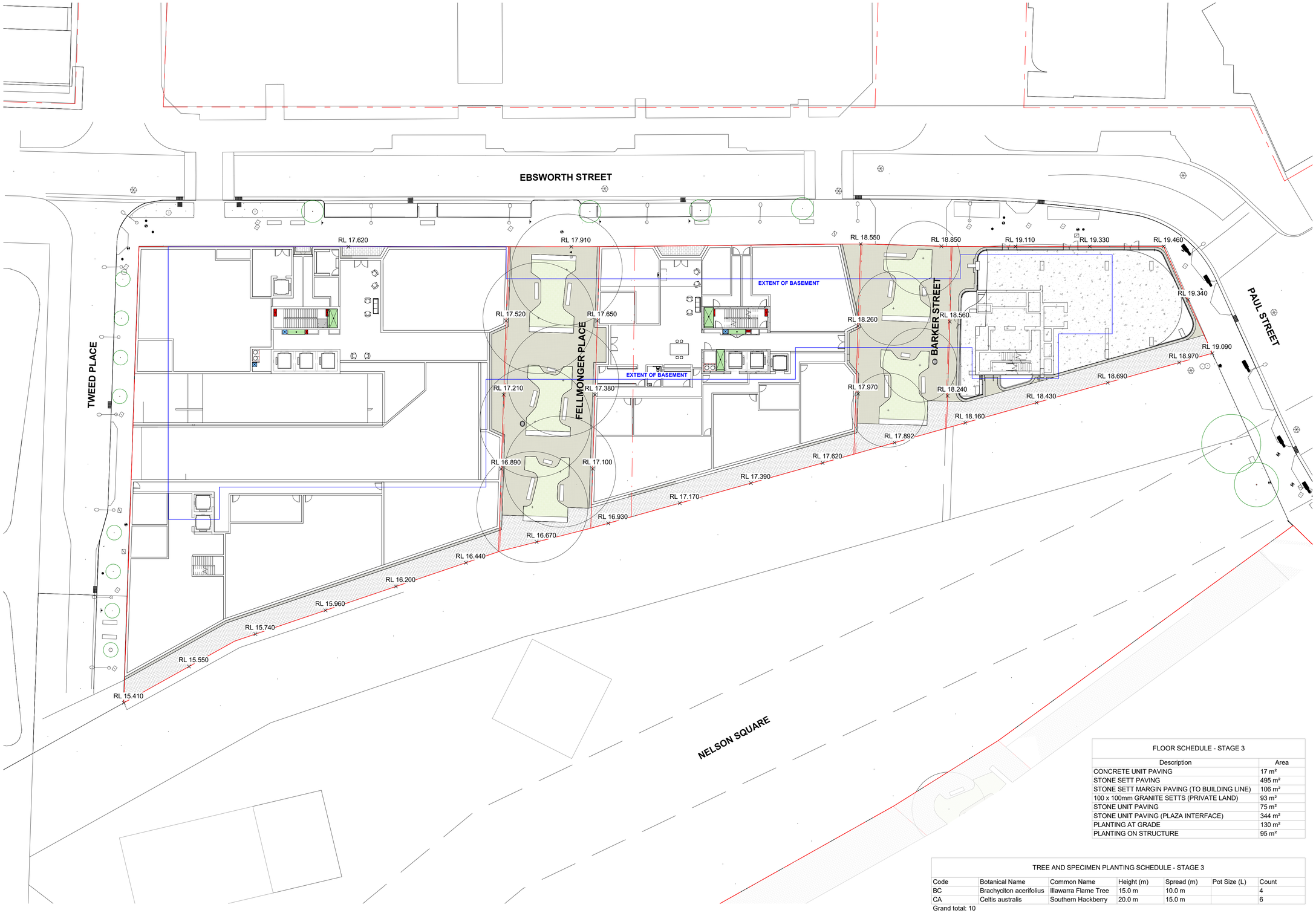

LEGEND

- STONE SETT PAVING
- STONE SETT MARGIN PAVING (TO BUILDING LINE)
- CONCRETE UNIT PAVING
- STONE UNIT PAVING
- PLANTING ON STRUCTURE
- TREE PLANTING
- CONCRETE WALL
- CUSTOM TIMBER SEAT TO MATCH GREEN SQUARE FURNITURE
- CITY OF SYDNEY BIN

FLOOR SCHEDULE - STAGE 3

Description	Area
CONCRETE UNIT PAVING	17 m²
STONE SETT PAVING	495 m²
STONE SETT MARGIN PAVING (TO BUILDING LINE)	106 m²
100 x 100mm GRANITE SETTS (PRIVATE LAND)	93 m²
STONE UNIT PAVING	75 m²
STONE UNIT PAVING (PLAZA INTERFACE)	344 m²
PLANTING AT GRADE	130 m²
PLANTING ON STRUCTURE	95 m²

TREE AND SPECIMEN PLANTING SCHEDULE - STAGE 3

Code	Botanical Name	Common Name	Height (m)	Spread (m)	Pot Size (L)	Count
BC	Brachyciton acerifolius	Illawarra Flame Tree	15.0 m	10.0 m		4
CA	Celtis australis	Southern Hackberry	20.0 m	15.0 m		6

Grand total: 10

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ABN 34 074 882 447

This drawing is to be read in conjunction with all landscape architecture schedules, technical specifications, and other consultant drawings. Please check and verify all dimensions and site conditions prior to the commencement of any work. Do not scale drawings – refer to figured dimensions only. Please inform OCULUS of any discrepancies for clarification before proceeding. Unless otherwise noted this drawing is not for construction. Services shown on this drawing are approximate only, the exact location is to be confirmed on-site by contractor prior to commencement – before you dig (byda.com.au).

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KEY PLAN

SCALE
1:250@A1

2 0 2 4 6 8 10

PROJECT S25-014
STAGE 3
Botany Road, Zetland, NSW

STATUS
CONCEPT DESIGN

CLIENT
Mirvac

ARCHITECT
DKO, FK, PLUS, TZG, MIRVAC DESIGN

ISSUE	DATE	AMENDMENT	BY	APPROVED
1	19.08.25	FOR PRELIMINARY COSTING	SL/LM	PM
2	20.08.25	FOR PRELIMINARY COSTING	SL/LM	PM

DRAWING TITLE
STAGES 3_GROUND FLOOR PLAN

DRAWING NUMBER
L008

REVISION
2

Appendix B Example Material Tracking Documents

Material Characterisation Form (example)

MCF Reference #_____

Item	Detail
Completed by:	John Doe
Date	24 July 2025
Material Identification (Stockpile name and grid reference, importation source name and unique identification name etc.)	DGB20 – Concrete Recycler Example Pty Ltd (Smithfield)
Source location (Stockpile name and grid reference, source location and grid reference, off-site source address and description of source site residential, quarry etc.)	On site □ - Details: Off site (Source Site) ☒ Details: Stockpile located at Concrete Recycler, Example Road, Smithfield, NSW.
JBS&G material classification report reference	JBS&G – L001 Date: 20 July 2025
Summary of material characterisation report as prepared by JBS&G	VENM □ for importation ENM □ Reuse on Site □ Waste Classification □ Other ☒ please describe Recycled aggregate (DGB20) to be imported to site
Volume of material	Survey Information □ Field Estimate □ Required Quantity (off-site source) ☒ Approximately 250 m^3
Material description (material type, colour, inclusions, etc.)	DGB20 – Grey-dark grey gravelly sand
Is the material free of ACM, staining and malodourous soils	Yes ☒ No □ Details:
If assessment is of material from an off-site Source, is the material suitable for importation to the site?	Yes, the material is suitable to be imported to site.
If assessment is for off-site disposal of material, what is the final waste classification / reuse exemption conclusion?	N/A
If the assessment is for reuse of the material at the site, is the material suitable for reuse	Suitable for reuse: - below the capping profile in road corridor ☒ - above the capping profile in road corridor footprint and used in landscaped areas □ - below the capping profile in recreational areas □ - above the capping profile in recreational areas and used in landscaped areas □ -
Other comments:	Please ensure import dockets are retained, the volume imported documented and all materials

	tracked in accordance with the materials tracking plan.

Material Tracking Sheet Part A (example)

MTS Reference #_____

Materials Tracking Form Part A (Materials Received, Excavated, Stored or Placed)										
Completed by:										
Date:										
Comment (Are there any visual or olfactory indicators of contamination):										
Load No.	**Time**	**Truck Rego / Plant ID**	**Load Quantity (m^3)**	**MCF Reference No**	**Source Location and ID**	**Temporary Stockpiled Y/N and New ID**	**Final Placement Location** Y/N	**Placement location**	**Reduced level of placement m AHD (final placement only)**	**GPS Coordinates (final placement only)**

Material Tracking Sheet Part B (example)

MTS Reference #_____

Part B Off-site Disposal							
Completed by:							
Date:							
Receiving Site:							
Hauling subcontractor:							
Load No.	Time	Truck Rego / Plant ID	Load Quantity (m^3)	Material Classified as waste Y/N	Waste Description and JBS&G Reference No. including any visual or olfactory indicators of contamination	Source location	Receipt/Consignment No.

Appendix D - Material Export Tracking Summary

									Waste Disposal																				
									Location #1: **Facility Name:** **Address:** **EPL:** **Material Source ID/Stockpile Ref:** **Waste Classification Reference:**								**Location #1:** **Facility Name:** **Address:** **EPL:** **Material Source ID/Stockpile Ref:** **Waste Classification Reference:**								**Location #1:** **Facility Name:** **Address:** **EPL:** **Material Source ID/Stockpile Ref:** **Waste Classification Reference:**							
Cartage Days	**Date**	**Day**	No. of Loads (T&D)	No. of Loads 10 Wheel	No. of Loads (Bogie)	Number of Loads Tipper 4 Tonne	**Bulk (m3) Cumulative**	**Tonnes (t) Cumulative**	Number of Loads Truck and Trailer	Number of Loads 10 Wheel	Number of Loads Bogie	Volume m3	Tonnage	Wastelocate no./or Consignment Number	Landfill Docket No.	Number of Loads Truck and Trailer	Number of Loads 10 Wheel	Number of Loads Bogie	Volume m3	Tonnage	Wastelocate no./or Consignment Number	Docket No. (if relevant)	Number of Loads Truck and Trailer	Number of Loads 10 Wheel	Number of Loads Bogie	Volume m3	Tonnage	Wastelocate no./or Consignment Number	Docket No. (if relevant)
Totals																													
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Appendix D - Material Export Tracking Summary

									VENM Removal														
									Location #1: **Receiver Name:** **Address:** **Material Source ID/Stockpile Ref:**					**Location #2:** **Receiver Name:** **Address:** **Material Source ID/Stockpile Ref:**					**Location #3:** **Receiver Name:** **Address:** **Material Source ID/Stockpile Ref:**				
Cartage Days	**Date**	**Day**	No. of Loads (T&D)	No. of Loads 10 Wheel	No. of Loads (Bogie)	Number of Loads Tipper 4 Tonne	**Bulk (m3) Cumulative**	**Tonnes (t) Cumulative**	Number of Loads Truck and Trailer	Number of Loads 10 Wheel	Number of Loads Bogie	Volume m3	Tonnage	Number of Loads Truck and Trailer	Number of Loads 10 Wheel	Number of Loads Bogie	Volume m3	Tonnage 2.0	Number of Loads Truck and Trailer	Number of Loads 10 Wheel	Number of Loads Bogie	Volume m3	Tonnage 2.0
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Appendix C Waste Classification

JBS&G 69329 | 167945

L001 - GSTC Stage 3 In-situ Waste Rev 0

19 August 2025

Natalie Assouline
Mirvac Projects Pty Ltd
Via email: natalie.assouline@mirvac.com

In-situ Waste Classification: Stage 3, Green Square Town Centre, 960A Bourke St, Zetland, NSW

Dear Natalie,

JBS&G Australia Pty Ltd (JBS&G) was engaged by Mirvac Projects Pty Ltd (Mirvac, the Client) to prepare an in-situ waste classification for fill material within Stage 3 of the Green Square Town Centre (GSTC), herein referred to as the site. The site, located at 960A Bourke Street, Zetland, is legally described as Lot 6 in Deposited Plan (DP) 1199427 and occupies an area of approximately 5,142 m². The site location and layout are shown on **Figures 1** and **2** (**Attachment B**), respectively.

As outlined in the Remedial Action Plan (RAP, JBS&G 2025[1]) prepared for the site, surplus fill material beyond the site's storage capacity is proposed to be remediated through excavation and off-site disposal. The site has been subject to multiple assessments from 2007 to the present, with analytical data from these investigations forming the basis of the waste classification outlined herein.

An in-situ waste classification, prepared to the satisfaction of NSW EPA-accredited Site Auditor Melissa Porter of Senversa Pty Ltd (Senversa), was previously issued by JBS&G (2014[2]). At that time, the site's fill material was classified as Special (asbestos) mixed with General Solid Waste (GSW/S). Given the lapse in time and the availability of new analytical data, this report provides an updated assessment.

Further details on the site, material characterisation, and waste classification in accordance with the NSW EPA (2014) *Waste Classification Guidelines Part 1: Classifying Waste* are provided below. The limitations set out in **Attachment A** apply to the advice contained in this report.

Table 1: Site Details

Particulars	Details
Address	960A Bourke Street, Zetland NSW, 2017
Lot/DP	Lot 6 DP 1199427
Local Government Authority	The Council of the City of Sydney
Site Description	Vacant land sealed with asphalt, featuring a pedestrian easement (thoroughfare) running through the central portion of the site
Assessment Area Details	N/A – this report pertains to the entire site
Site Area (m^2)	5,142
Assessment Area (m^2)	N/A – this report pertains to the entire site

[1] *Remedial Action Plan Stage 3 Green Square Town Centre – 960A Bourke Street, Zetland, NSW. Prepared for Mirvac Projects Pty Ltd by JBS&G Australia Pty Ltd ref. 69329 167900 Rev A dated 18 August 2025 (JBS&G 2025)*
[2] *Remedial Action Plan Stage 3 Green Square Town Centre – 960A Bourke Street, Zetland, NSW. Prepared for Mirvac Projects Pty Ltd by JBS&G Australia Pty Ltd ref. 69329 167900 Rev A dated 18 August 2025 (JBS&G 2025)*

Table 2: Company and Consultant Preparing the Waste Classification

Particulars	Details
Company	JBS&G Australia Pty Ltd
Australian Business Number (ABN)	62 100 220 479
Address	Level 8, 179 Elizabeth Street, Sydney NSW, 2000
Consultant	Sam Knott

Table 3: Desktop Review / Background

Particulars	Details
Site/Assessment Area History	Historically, the site operated as a quarry that was progressively backfilled with inert waste. It was subsequently used to house a Council incinerator and police facilities. More recently, the site has been used as a construction staging compound and car park following the decommissioning of the incinerator and police facility
Production History of Materials (i.e. origins)	Fill material of unknown origins, either historically imported to the site to backfill the quarry void or resultant from historical land use activities, including leaks and spills associated with former petroleum infrastructure
Acid Sulfate Soil (ASS)	A review of the Acid Sulfate Soil Risk Map for Botany Bay (DLWC 1997[3]) indicates that the site is located within an area of no known occurrence of Acid Sulfate Soils/Potential Acid Sulfate Soils (ASS/PASS). Given the absence of indicators of potential ASS/PASS within the material (shell material, organic matter, jarosite, odours etc), no further consideration of the potential for this material to be ASS/PASS is warranted
Potential Contaminating Activities	Potential contaminating activities that may have resulted in impacts to the material may have included: • Historical industrial land use activities • Leaks and spills associated with chemical storage, machinery, vehicles, etc • Historical application of pesticides • Importation of material of unknown origin to create current levels; and/or • Improper waste disposal associated with industrial land use activities

Table 4: Material Characterisation and Sampling Rationale

Particulars	Details
Area and Depth	The site has an area of approximately 5,142 m^2. Fill material has been across the site, with depths ranging from 4.6 (AQ028) to 14.1 m below ground surface (bgs) (AQ017) (JBS&G 2025a). Historical sampling locations are shown on **Figure 3** (**Attachment B**)
Estimated Volume	It is anticipated that less than 20,000 m^3 of fill will require off-site disposal to accommodate the development, including the construction of a utilities basement
Sampling Method	Sampling has historically been conducted using a combination of boreholes and test pits with sample depths ranging from shallow fill to the depth of fill. Historical investigations have been the subject of quality assurance/quality control (QA/QC) evaluation, with the data considered to be of an acceptable quality for site characterisation
Material Identification	Fill - brown, heterogeneous, gravelly, silty and sandy clay, and silty and clayey sand with inclusion construction waste comprising bricks, metal, tiles,

[3] *Acid Sulfate Soil Risk Map – Botany Bay, Edition 2, 1997*. 1:25 000 Ref: 91 30S3. NSW DLWC (DLWC 1997)

Particulars	Details
	terracotta, ceramics, glass, asbestos-containing material (ACM), and crushed sandstone, along with inclusions of boiler ash and metallurgical slag gravels
Visible Signs of Contamination?	Yes – foreign inclusion, including ACM
Visible Asbestos Containing Material (ACM)	Yes
Visible Putrescible Material?	No
Number of Samples and Sample IDs	Historically, 69 sample locations have been advanced across the site. Reference should be made to the soil analytical summary tables, given the number of samples (**Attachment C**) • 174 primary samples for chemical analysis • 303 primary samples for asbestos
Toxicity Characteristic Leaching Procedure (TCLP) Samples	Yes – representative samples were submitted for TCLP analysis (**Table B**, **Attachment C**), including the following: • 30 primary samples analysed for a range of heavy metals (largely lead) • 26 primary samples for PAHs and/or benzo(a)pyrene
Rational for Sampling Design	For an area of 5,142 m², the NSW EPA (2022[4]) *Sampling Design Guidelines* recommend a minimum of 15 systematic soil sampling locations for the detection of circular contamination 'hotspots'. Historically, 69 sample locations have been advanced across the site. As such, the sample frequency is considered appropriate based on the site's historical context, land uses, and the prevailing consistency in the material type of the sampled material
QA/QC Sample	Historical investigations have undergone QA/QC evaluation, with the data assessed as being of acceptable quality for site characterisation. Interim Audit Advice (IAA) has been issued confirming the data's suitability
Sampling Dates	2007 to 2023 (refer to **Attachment C**)

Table 5: Laboratory Analysis

Particulars	Details
Primary Laboratory	**Eurofins Environmental Testing Australia Pty Ltd (Eurofins)** JBS&G 2014, JBS&G 2022, JBS&G 2023 **SGS Australia Pty Ltd (SGS)** Coffey 2011 **LabMark Environmental Sydney** HLA 2007
Secondary Laboratory	**Envirolab Services Pty Ltd (Envirolab)** JBS&G 2014, JBS&G 2022a, JBS&G 2023a **ALS Environmental (ALS):** HLA 2007
All Laboratory Methods NATA Certified?	Yes
Contaminants of Potential Concern (COPC)	Total recoverable hydrocarbons (TRHs), polycyclic aromatic hydrocarbons (PAHs), volatile organic compounds (VOCs), benzene, toluene, ethylbenzene and xylenes (BTEX), polychlorinated biphenyls (PCBs), organochlorine pesticides (OCPs), 8 heavy metals and asbestos
Laboratory Report Attached?	Yes - laboratory reports associated with the recent investigations are provided in **Attachment D**

[4] *Sampling Design Part 1 Application.* NSW EPA Contaminated Land Guidelines 2022 (EPA 2022)

Particulars	Details
	Historical data sampling events were extracted from summary tables within the RAP. This compilation was necessary as certificates of analysis were not attached to these documents. The RAP has been reviewed and endorsed by NSW EPA accredited Site Auditor, Melissa Porter Senversa and the soil data has been deemed of acceptable quality for the purpose of site characterisation/waste classification.
Additional Data Sources?	Yes – RAP
Does a General Immobilisation Approval cover the Material?	Yes, pursuant to the Protection of the Environment Operations (Waste) Regulation 2014: • **2009/07** – Metallurgical furnace slag or metallurgical furnace slag–contaminated natural excavated materials (EPA 2009): Fill material containing chromium (VI), lead, nickel, and benzo(a)pyrene can be classified based on their leachable concentrations (TCLP) alone. • **1999/05** – Ash, ash-contaminated natural excavated materials, or coal-contaminated natural excavated materials (EPA 1999): Fill material containing benzo(a)pyrene, ash, or coal-contaminated materials can likewise be classified according to their TCLP values alone. Accordingly, site fill can be classified based solely on their leachable concentrations (TCLP) for these heavy metals and PAHs/BaP, in accordance with General Immobilisation Approval 2009/07 (EPA 2009) and General Immobilisation Approval 1999/05 (EPA 1999)
QA/QC Assessment	Based on the results of the field and laboratory QA/QC program, the soil data is of an acceptable quality for waste classification purposes

Discussion of Results	The implemented sampling density was considered sufficient to characterise the material and analytes of concern and to appropriately reflect the site setting and history, in accordance with EPA (2014) requirements.
	With the exception of the following contaminants of potential concern (COPCs), all analysed sample concentrations were below the Contaminant Threshold (CT1) for classification GSW:
	• **Arsenic**: 1 sample (570 mg/kg) exceeded CT1 (100 mg/kg) and SCC1 (500 mg/kg) thresholds
	• **Cadmium:** 2 samples (23 and36 mg/kg) exceeded CT1 (20 mg/kg)
	• **Chromium:** 3 samples (120 to 180 mg/kg) exceeded CT1 (100 mg/kg)
	• **Lead:** 154 samples (110 to 8,600 mg/kg) exceeded CT1 (100 mg/kg)
	  ○ 55 samples above CT2 (400 mg/kg)
	  ○ 11 samples above SCC1 (1,500 mg/kg)
	  ○ 1 sample above SCC2 (6,000 mg/kg)
	• **Nickel:** 19 samples (43 to 360 mg/kg) exceeded CT1 (40 mg/kg)
	  ○ 2 samples above CT2 (160 mg/kg)
	• **Benzo(a)pyrene (BaP):** 103 samples (0.9 to 200 mg/kg) exceeded CT1 (0.8 mg/kg)
	  ○ 35 samples above CT2 (3.2 mg/kg)
	  ○ 14 samples above SCC1 (10 mg/kg)
	  ○ 6 samples above SCC2 (60 mg/kg)
	• **TPH C10–C36 Fraction (Total):** 2 samples (12,900 to 12,960 mg/kg) exceeded CT1/SCC1 (10,000 mg/kg)
	Representative samples for heavy metals and PAHs were submitted for TCLP analysis, with all samples reported below TCLP1 criteria. All total contaminant concentrations were below SCC1 thresholds, except for:

Particulars	Details
	• Arsenic (1 sample) • Lead (11 samples) • BaP (14 samples) • TPH C10 - C36 (2 samples) In accordance with General Immobilisation Approval 2009/07 (EPA 2009) and General Immobilisation Approval 1999/05 (EPA 1999), waste contaminated with lead and BaP can be classified based solely on leachable concentrations (TCLP values) Arsenic and TPH C10–C36 95% upper confidence limit (UCL) values were calculated using ProUCL, following EPA (2014) waste classification guidelines. The mean values were: • Arsenic: 27.91 mg/kg • TPH C10–C36: 1,303 mg/kg Based on these 95% UCL mean results, arsenic and TPH C10–C36 concentrations fall within CT1 and SCC1 thresholds. 95% UCL calculations are provided in **Attachment E** Asbestos was identified at multiple locations throughout site fill material, including both ACM and friable asbestos. Therefore, site fill material is considered to be impacted by asbestos

Table 6: Waste Classification

Particulars	Details
Waste Classification	**SPECIAL WASTE (asbestos) mixed with GENERAL SOLID WASTE (non-putrescible)**
Does 'Special Waste' Apply	Yes
Is the Material Classified as Hazardous Waste	No
Is the Material Scheduled Waste	No
Classification Comments	The classification applies to all the material identified and described herein as a whole, and only the material identified and described herein. Waste classification is in accordance with the NSW EPA (2014) Waste Classification Guidelines.
Disposal Comments	Waste must be transported by an appropriately licensed transporter and disposed of at a facility that is licensed to receive that class of waste. Waste must be managed per relevant guidelines and regulations during loading, transport, unloading and disposal. There are special considerations for transport and management, including disposal of asbestos waste under the Protection of the Environment Operations (Waste) Regulation, including tracking and reporting of asbestos waste using the NSW EPA Integrated Waste Tracking Solution (IWTS).

Should you require clarification, please contact the undersigned on 02 8245 0300 or by email sknott@jbsg.com.au.

Yours sincerely:

Sam Knott
Senior Environmental Consultant
JBS&G Australia Pty Ltd

Reviewed/Approved by:

Nathan Cussen
Principal
JBS&G Australia Pty Ltd

Attachments:

Attachment A	Limitations
Attachment B	Figures
Attachment C	Analytical Tables
Attachment D	Historic Laboratory Reports
Attachment E	95% UCL Calculations

Attachment A Limitations

This report has been prepared for use by the client who has commissioned the works in accordance with the project brief only, and has been based in part on information obtained from the client and other parties. The report has been prepared specifically for the client for the purposes of the commission, and no warranties, express or implied, are offered to any third parties and no liability will be accepted for use or interpretation of this report by any third party.

The advice herein relates only to this project and all results conclusions and recommendations made should be reviewed by a competent person with experience in environmental investigations, before being used for any other purpose. This report should not be amended in any way without prior approval by JBS&G, or reproduced other than in full including all attachments as originally provided to the client by JBS&G.

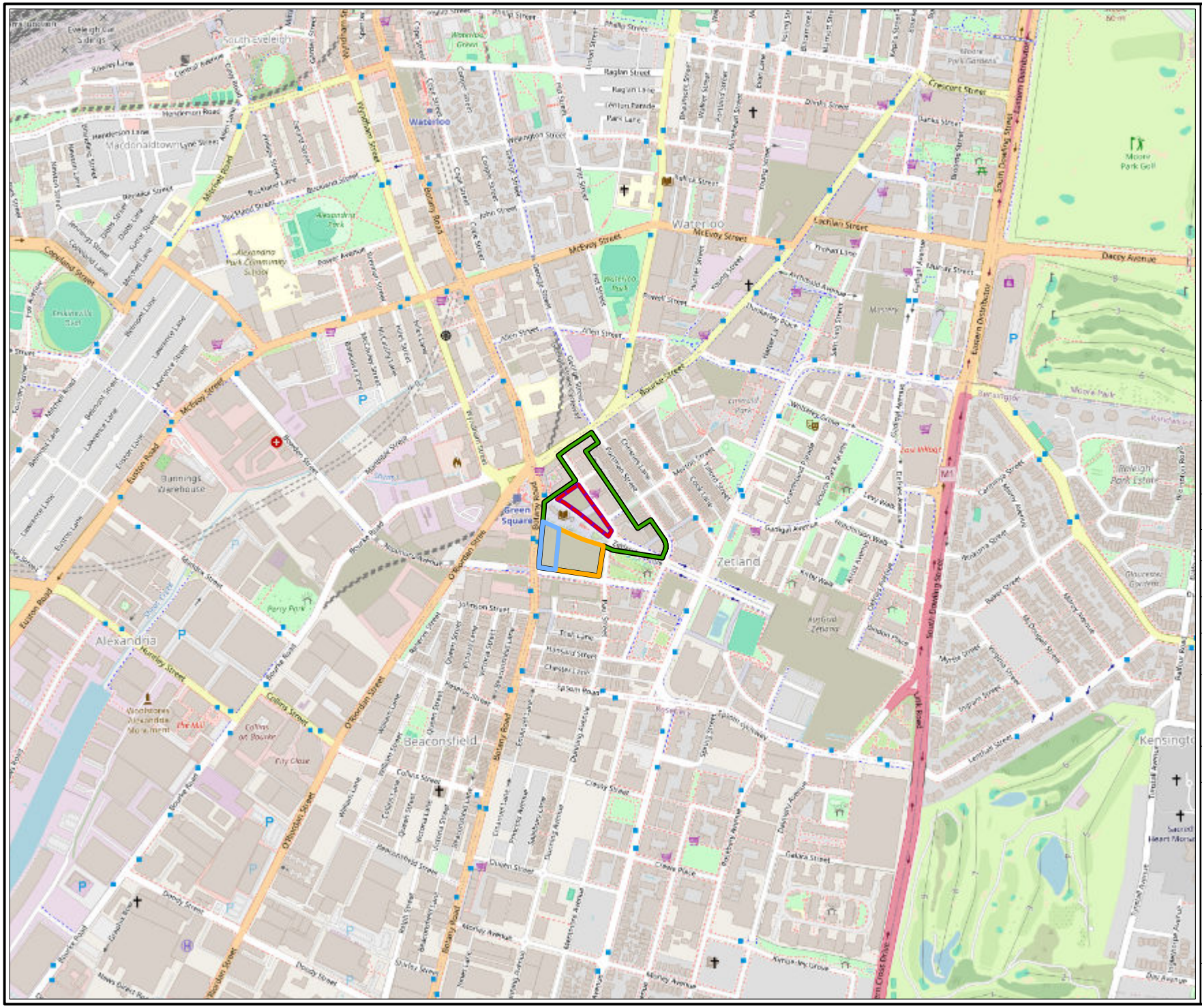
Sampling and chemical analysis of environmental media is based on appropriate guidance documents made and approved by the relevant regulatory authorities. Conclusions arising from the review and assessment of environmental data are based on the sampling and analysis considered appropriate based on the regulatory requirements or agreed scope of work.

Limited sampling and laboratory analyses were undertaken as part of the investigations undertaken, as described herein. Conditions between sampling locations and media may vary, and this should be considered when extrapolating between sampling points. Chemical analytes are based on the information detailed in the site history. Further chemicals or categories of chemicals may exist at the site, which were not identified in the site history and which may not be expected at the site.

Changes to the conditions may occur subsequent to the investigations described herein, through natural processes or through the intentional or accidental addition of contaminants. The conclusions and recommendations reached in this report are based on the information obtained at the time of the investigations.

This report does not provide a complete assessment of the environmental status of the site, and it is limited to the scope defined herein. Should information become available regarding conditions at the site including previously unknown sources of contamination, JBS&G reserves the right to review the report in the context of the additional information.

Attachment B Figures



JBS&G

Job No: 69329

Client: Mirvac Green Square Pty Ltd

Version: R02 Rev A	Date 27/06/2025
Drawn By: RF	Checked By: SK

Scale 1:12,500

0 125 250

metres

Coord. Sys. GDA 1994 MGA Zone 56

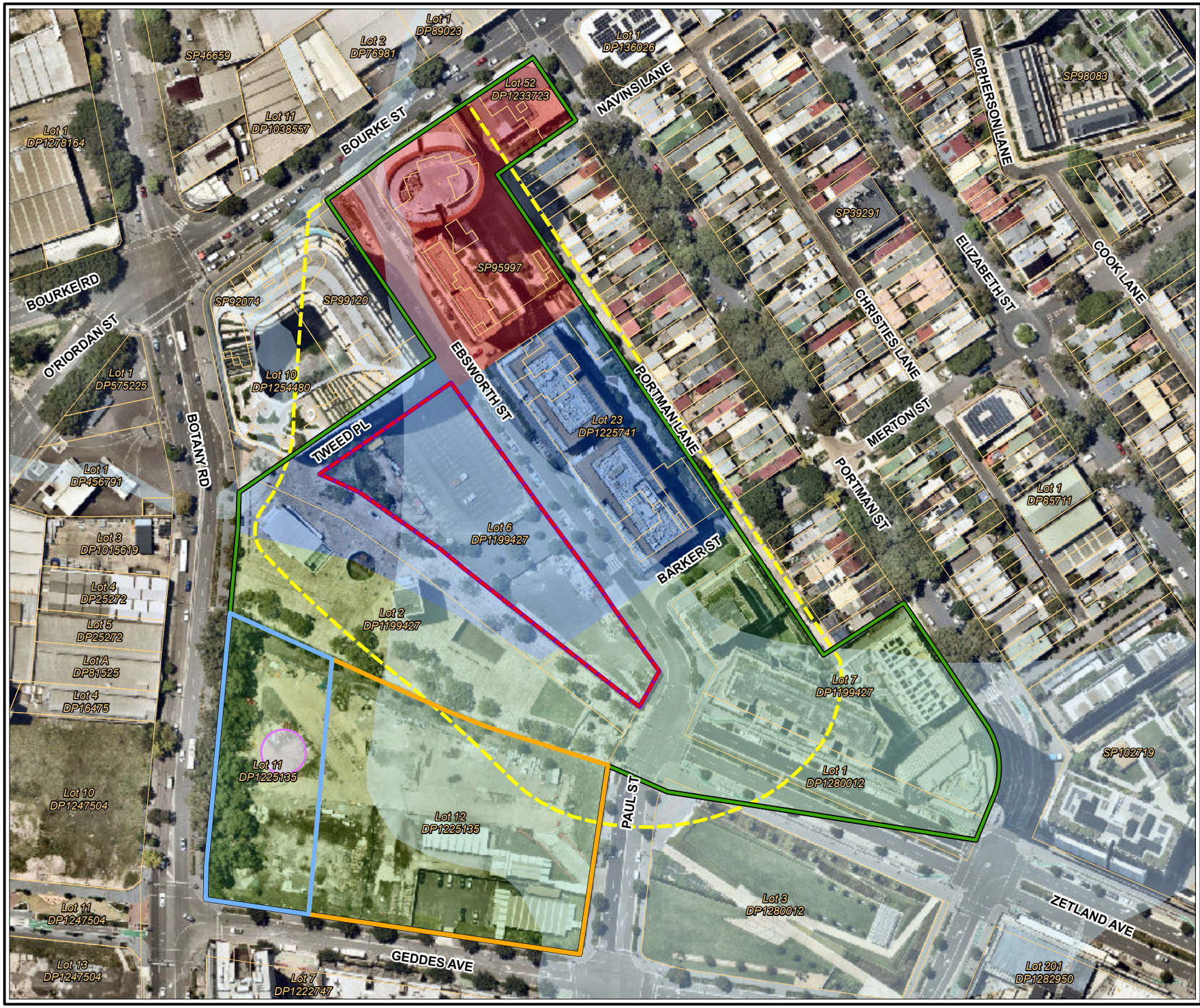
Green Square, NSW

SITE LOCATION - STAGE 3

FIGURE 1

File Name: 69239_GreenSquare_SSDA_Stage3_R02_RevA

Reference: © OpenStreetMap (and) contributors, CC-BY-SA



Legend

- The Site - Stage 3
- NSW Cadastre
- Green Square Town Centre
- Stage 3
- Stage 4
- Stage 5

Historic Features

- Former Council Depot Site
- Former Incinerator Site
- Former Police Site
- Former Police Helipad
- Former Quarry
- Former Dam

JBS&G

Job No: 69329

Client: Mirvac Green Square Pty Ltd

Version: R02 Rev A	Date 27/06/2025
Drawn By: RF	Checked By: SK

Scale 1:2,000

0 10 20
metres

Coord. Sys. GDA 1994 MGA Zone 56

Green Square, NSW

SITE LAYOUT AND HISTORICAL FEATURES

FIGURE 2

File Name: 69239_GreenSquare_SSDA_Stage3_R02_RevA
Reference: Nearmap - www.nearmap.com (Capture Date: 20250402)

Legend

- The Site - Stage 3
- NSW Cadastre
- Green Square Town Centre
- Stage 3
- Stage 4
- Stage 5

Historic Soil Sample Locations

- Borehole,Coffey 2011
- Borehole,HLA 2007 - Incinerator Site
- Borehole,JBS&G 2014
- Borehole,JBS&G 2022
- Borehole,JBS&G 2023a

JBS&G

Job No: 69329

Client: Mirvac Green Square Pty Ltd

Version: R02 Rev A	Date 27/06/2025
Drawn By: RF	Checked By: SK

Scale 1:800

0 7.5 15

metres

Coord. Sys. GDA 1994 MGA Zone 56

Green Square, NSW

HISTORICAL SAMPLE LOCATIONS - SOIL

FIGURE 3

File Name: 69239_GreenSquare_SSDA_Stage3_R02_RevA
Reference: Nearmap - www.nearmap.com (Capture Date: 20250402)

Attachment C Analytical Tables

Table A - Soil
Project Number: 69329
Project Name: Stage 3, GSTC - 960A Bourke Street, Zetland NSW

		Metals & Metalloids							
		Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL		2	0.4	1	1	1	0.1	1	1
NSW 2014 General Solid Waste CT1 (No Leaching)		100	20	100		100	4	40	
NSW 2014 General Solid Waste SCC1 (with leached)		500	100	1,900		1,500	50	1,050	
NSW 2014 Restricted Solid Waste CT2 (No Leaching)		400	80	400		400	16	160	
NSW 2014 Restricted Solid Waste SCC2 (with leached)		2,000	400	7,600		6,000	200	4,200	
Field ID	**Date**								
I3_3.9-4	Coffey 2011	4	0.4	9.5	59	140	0.25	6.1	160
I3_5.4-5.5	Coffey 2011	4	<0.3	13	33	430	2.1	4.3	140
BHP3_0.5-0.6	Coffey 2011	5	0.5	8.2	90	130	0.17	7.2	160
BHP3_2-2.1	Coffey 2011	25	<0.3	11	55	200	0.7	3.9	120
BHP3_5.5-5.6	Coffey 2011	3	<0.3	3.5	15	50	0.2	1.9	25
BH14_2-2.1	Coffey 2011	<3	<0.3	8.5	9.2	28	0.09	5.7	66
BH14_5-5.1	Coffey 2011	5	<0.3	11	16	68	0.7	7.1	51
BH14_8.2-8.3	Coffey 2011	<3	<0.3	5.5	2.6	9	<0.05	3.7	23
R31_0.5-0.6	Coffey 2011	6	0.9	13	150	430	0.68	14	410
R32_0.5-0.6	Coffey 2011	4	0.5	8	120	1,100	1	7.4	340
R32_2-2.1	Coffey 2011	8	0.8	27	190	210	0.11	36	190
R33_1.5-1.6	Coffey 2011	9	0.5	43	300	310	0.39	26	330
BH7_0.2-0.4	HLA 2007	1	0.2	22	92	29	0.12	120	81
BH7_8.8-9	HLA 2007	7	0.2	18	86	320	0.77	12	240
BH8_0.1-0.2	HLA 2007	<1	<0.1	19	81	3	<0.05	160	59
BH8_6-6.5	HLA 2007	3	0.1	7	11	79	0.43	4	83
BH10_4.3-4.5	HLA 2007	4	0.2	15	50	120	0.66	6	240
BH10_7-7.5	HLA 2007	10	0.5	12	77	470	1.1	10	520
BH13_0.3-0.4	HLA 2007	8	0.4	8	85	220	0.27	22	230
BH13_7.6-8	HLA 2007	2	<0.1	5	13	79	0.07	2	34
FC062_0.1-0.2	JBS&G 2014	7.8	1.3	18	210	470	2	48	510
QC05	JBS&G 2014	4.1	1.3	27	210	470	2.6	78	430
QC05-A	JBS&G 2014	4	0.6	16	140	260	0.8	40	280
FC062_3.8-4	JBS&G 2014	2.6	0.4	7	59	120	0.95	6.6	120
FC063_1.6-1.8	JBS&G 2014	9.7	1.2	20	190	400	0.98	21	460
FC063_3.8-4	JBS&G 2014	3.5	0.6	10	89	190	0.38	14	200
FC064_0.1-0.2	JBS&G 2014	41	5.3	26	160	350	1.1	62	1,800
FC064_0.5-0.7	JBS&G 2014	<2	0.4	<5	50	41	0.08	10	58
FC064_3.1-3.3	JBS&G 2014	33	23	120	830	5,900	0.44	44	11,000
FC064_4.7-4.9	JBS&G 2014	11	1	13	750	75	0.1	13	1,400
FC065_0.1-0.2	JBS&G 2014	<2	0.7	25	65	140	0.21	48	180
FC065_0.5-0.7	JBS&G 2014	4.5	3.5	11	67,000	1,800	0.32	62	26,000
FC065_1-1.2	JBS&G 2014	<2	1.3	18	77	460	0.38	14	270
FC065_2.3-2.5	JBS&G 2014	3	<0.4	6.6	130	230	0.27	<5	120
FC065_3-3.2	JBS&G 2014	15	<0.4	<5	77	140	0.33	<5	160
FC066_0.5-0.7	JBS&G 2014	3.9	0.8	11	190	310	0.83	33	260
FC066_1.5-1.7	JBS&G 2014	3.8	3.6	12	170	300	0.51	18	380
FC066_2.5-2.7	JBS&G 2014	6.6	1.3	11	140	180	0.39	12	190
FC066_3.1-3.3	JBS&G 2014	5.8	<0.4	<5	280	10	<0.05	<5	37
FC067_0.5-0.6	JBS&G 2014	4.5	0.6	6.4	250	320	0.27	12	260
FC067_0.9-1.1	JBS&G 2014	<2	<0.4	<5	45	43	0.28	7.2	64
FC067_3.1-3.3	JBS&G 2014	<2	0.4	<5	72	180	1.1	7.6	220
FC068_0.1-0.2	JBS&G 2014	4.3	2.2	20	450	350	0.6	23	420
FC068_1.1-1.3	JBS&G 2014	5.2	3.4	13	190	430	2	16	590
FC068_4.8-5	JBS&G 2014	2.6	0.8	5.8	82	340	0.31	5.8	240
FC069_6-6.1	JBS&G 2014	7.1	<0.4	39	24	99	0.11	12	49
FC069_8-8.1	JBS&G 2014	<2	<0.4	130	22	51	0.26	<5	64
FC070_0.1-0.2	JBS&G 2014	5.2	0.7	7.8	140	350	0.43	10	310
FC070_0.5-0.6	JBS&G 2014	4.8	0.6	8.2	150	260	0.67	9.9	340
FC070_6-6.1	JBS&G 2014	3	<0.4	15	<5	12	<0.05	<5	27
QC18	JBS&G 2014	<2	<0.4	25	<5	19	<0.05	<5	72
QC18-A	JBS&G 2014	<4	<0.4	16	2	12	<0.1	1	11
FC071_0.5-0.8	JBS&G 2014	10	0.4	8.4	120	300	0.68	8.3	150
FC071_2.8-3	JBS&G 2014	5.8	<0.4	<5	19	780	0.37	<5	93
FC071_4.8-5	JBS&G 2014	46	0.6	6.8	95	520	1	5.6	210
FC071_6-6.1	JBS&G 2014	6.7	<0.4	38	41	160	0.23	6.3	78
FC071_8-8.1	JBS&G 2014	4.3	<0.4	42	18	97	0.12	<5	43

Table A - Soil
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		Metals & Metalloids							
		Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL		2	0.4	1	1	1	0.1	1	1
NSW 2014 General Solid Waste CT1 (No Leaching)		100	20	100		100	4	40	
NSW 2014 General Solid Waste SCC1 (with leached)		500	100	1,900		1,500	50	1,050	
NSW 2014 Restricted Solid Waste CT2 (No Leaching)		400	80	400		400	16	160	
NSW 2014 Restricted Solid Waste SCC2 (with leached)		2,000	400	7,600		6,000	200	4,200	
Field ID	**Date**								
FC072_0.4-0.6	JBS&G 2014	<2	<0.4	<5	<5	<5	<0.05	<5	<5
FC072_1.5-0.7	JBS&G 2014	<2	<0.4	8.3	<5	6.2	0.17	<5	7
FC072_2.9-3.1	JBS&G 2014	<2	<0.4	<5	5.4	14	<0.05	<5	5.4
FC072_6-6.1	JBS&G 2014	5.2	<0.4	33	22	110	0.27	<5	130
FC053_0-0.1	JBS&G 2014	4.3	0.4	9.9	63	130	0.29	40	120
FC053_2-2.1	JBS&G 2014	9	0.5	10	66	200	0.53	17	170
FC054_0.5	JBS&G 2014	4.5	0.8	7	38	110	0.21	33	470
FC054_1-1.1	JBS&G 2014	3.9	<0.4	5.9	23	55	0.16	<5	73
FC055_0-0.1	JBS&G 2014	22	2.8	14	200	8,600	0.86	19	1,700
QC01	JBS&G 2014	11	1.2	26	370	780	0.47	35	680
QC01-A	JBS&G 2014	9	1.4	12	100	1,500	1	14	670
FC055_1-1.1	JBS&G 2014	5	0.7	7.8	78	470	1.5	12	270
FC055_4-4.1	JBS&G 2014	11	1.6	26	2,700	1,100	3.3	260	1,300
FC056_2-2.1	JBS&G 2014	12	<0.4	<5	110	250	0.12	7.8	160
FC056_3-3.1	JBS&G 2014	12	0.4	10	32	90	0.38	16	140
FC057_0-0.1	JBS&G 2014	<2	1.6	33	230	340	0.2	30	370
FC057_2-2.1	JBS&G 2014	<2	1.3	11	280	460	0.41	11	280
FC058_0.5-0.6	JBS&G 2014	<2	1.8	8	110	240	0.12	15	330
QC02	JBS&G 2014	3.8	1.6	9.1	120	500	0.12	18	370
QC02-A	JBS&G 2014	8	0.5	10	93	330	0.3	13	290
FC058_5-5.1	JBS&G 2014	<2	3	14	170	550	0.24	19	390
FC059_0.5-0.6	JBS&G 2014	<2	1.9	19	120	570	0.56	12	470
FC059_1-1.1	JBS&G 2014	30	3.8	46	3,100	2,400	2.6	55	3,200
FC060_1-1.1	JBS&G 2014	<2	4.9	30	240	680	0.47	21	600
FC060_2-2.1	JBS&G 2014	4.6	3.1	47	760	1,600	3.8	27	1,600
FC060_3-3.1	JBS&G 2014	8.2	3.3	17	1,000	700	0.62	34	1,200
FC061_1-1.1	JBS&G 2014	<2	1.7	13	170	380	0.24	18	400
FC061_3-3.1	JBS&G 2014	<2	5.6	26	220	490	0.3	20	650
BH500_0.5	JBS&G 2022	<2	<0.4	5.5	30	11	<0.1	<5	14
BH500_2.0	JBS&G 2022	8.8	<0.4	10	34	36	<0.1	9.0	58
QA20220217_PG6	JBS&G 2022	8.5	<0.4	11	43	39	<0.1	7.2	59
QC20220217-PG6	JBS&G 2022	9	<0.4	6	31	22	<0.1	5	35
BH500_3.5	JBS&G 2022	11	<0.4	21	18	120	3.1	8.1	81
BH500_5.0	JBS&G 2022	4.2	<0.4	19	14	130	1.2	<5	67
BH500_6.5	JBS&G 2022	5.6	<0.4	17	29	48	0.7	11	93
BH500_8.0	JBS&G 2022	7.8	<0.4	13	36	27	0.1	10	81
BH500_9.5	JBS&G 2022	6.7	<0.4	12	30	35	0.2	13	100
BH500_11.0	JBS&G 2022	10	<0.4	12	26	28	<0.1	17	160
BH501_1.0	JBS&G 2022	8.0	0.6	19	110	320	0.2	24	280
BH501_2.5	JBS&G 2022	24	0.6	35	250	340	0.8	52	450
BH501_4.0	JBS&G 2022	11	0.6	23	130	320	1.3	17	290
QA20220217_PG5	JBS&G 2022	8.6	0.4	19	140	260	1.0	13	270
QC20220217-PG5	JBS&G 2022	6	<0.4	12	70	180	0.8	8	150
BH501_5.5	JBS&G 2022	11	0.6	25	630	500	0.9	16	370
BH501_7.0	JBS&G 2022	12	0.7	32	77	330	0.7	14	480
BH501_8.5	JBS&G 2022	15	<0.4	33	67	210	0.4	25	280
BH501_10.0	JBS&G 2022	14	<0.4	24	45	170	0.4	20	230
BH501_11.5	JBS&G 2022	8.7	<0.4	13	7.0	21	<0.1	9.8	56
BH502_1.0	JBS&G 2022	13	0.5	23	200	280	0.4	27	290
BH502_2.0	JBS&G 2022	8.3	<0.4	20	94	170	0.3	23	210
BH502_3.5	JBS&G 2022	6.4	<0.4	20	310	120	0.2	8.7	440
BH502_5.0	JBS&G 2022	4.7	<0.4	13	110	310	1.9	<5	270
BH502_6.5	JBS&G 2022	4.9	<0.4	13	110	360	1.9	<5	260
BH502_8.0	JBS&G 2022	5.5	<0.4	18	100	250	1.3	<5	250
BH502_9.5	JBS&G 2022	4.9	<0.4	19	88	220	1.2	<5	200
BH502_11.0	JBS&G 2022	12	<0.4	25	23	25	<0.1	27	170
BH502_12.5	JBS&G 2022	6.0	<0.4	14	50	96	0.4	7.6	130

Table A - Soil
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		Metals & Metalloids							
		Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL		2	0.4	1	1	1	0.1	1	1
NSW 2014 General Solid Waste CT1 (No Leaching)		100	20	100		100	4	40	
NSW 2014 General Solid Waste SCC1 (with leached)		500	100	1,900		1,500	50	1,050	
NSW 2014 Restricted Solid Waste CT2 (No Leaching)		400	80	400		400	16	160	
NSW 2014 Restricted Solid Waste SCC2 (with leached)		2,000	400	7,600		6,000	200	4,200	
Field ID	**Date**								
BH503_0.5	JBS&G 2022	2.2	<0.4	12	27	25	<0.1	6.8	49
BH503_2.0	JBS&G 2022	8.0	0.8	18	440	540	1.3	80	920
BH503_3.5	JBS&G 2022	12	1.3	26	440	1,600	0.8	25	1,500
BH503_5.0	JBS&G 2022	23	3.0	62	2,600	2,300	0.5	360	2,100
BH503_6.5	JBS&G 2022	11	1.2	36	970	630	1.1	47	1,100
BH503_8.0	JBS&G 2022	20	0.5	27	200	1,400	0.3	43	490
BH503_9.5	JBS&G 2022	16	0.7	34	880	820	0.5	44	560
BH503_11.0	JBS&G 2022	9.4	0.7	21	220	720	0.5	28	530
BH503_12.5	JBS&G 2022	6.2	<0.4	17	26	58	<0.1	17	130
BH504_0.5	JBS&G 2022	3.8	<0.4	28	71	51	<0.1	19	110
QA20220217_PG2	JBS&G 2022	3.6	0.4	16	66	220	0.3	21	200
QC20220217-PG2	JBS&G 2022	<4	0.5	18	170	210	0.3	22	180
BH504_2.0	JBS&G 2022	3.4	<0.4	13	65	230	0.2	8.8	140
BH504_3.5	JBS&G 2022	4.4	0.6	38	130	260	0.3	27	230
QA20220217_PG3	JBS&G 2022	3.8	0.5	18	130	280	0.3	20	270
QC20220217-PG3	JBS&G 2022	<4	<0.4	14	110	170	0.2	13	130
BH504_4.5	JBS&G 2022	6.4	1.2	24	210	470	0.3	24	580
BH504_6.0	JBS&G 2022	12	1.5	23	360	840	0.4	26	760
BH504_7.5	JBS&G 2022	32	1.3	41	2,900	2,800	0.5	320	1,400
BH504_9.0	JBS&G 2022	14	0.6	21	420	500	0.3	18	510
BH504_10.5	JBS&G 2022	19	0.6	25	250	560	0.2	26	630
BH504_12.0	JBS&G 2022	20	0.5	180	570	3,500	0.1	31	310
BH505_1.5	JBS&G 2022	7.6	0.8	16	100	270	0.4	13	290
BH505_3.0	JBS&G 2022	11	1.1	22	160	430	0.9	19	410
QA20220217_PG4	JBS&G 2022	9.5	0.9	26	150	410	0.6	20	460
QC20220217-PG4	JBS&G 2022	6	0.8	15	100	290	0.4	12	250
BH505_4.5	JBS&G 2022	10	36	24	130	280	0.6	21	340
BH505_6.0	JBS&G 2022	7.4	1.0	27	190	2,300	0.5	15	310
BH505_7.5	JBS&G 2022	7.4	1.2	36	140	390	0.8	18	460
BH505_9.0	JBS&G 2022	8.1	1.2	31	130	470	0.7	19	480
BH505_10.5	JBS&G 2022	9.4	1.0	31	130	400	0.7	17	430
BH505_11.5	JBS&G 2022	8.5	1.3	22	140	360	0.6	16	370
BH506_1.0	JBS&G 2022	6.6	0.5	27	110	240	0.3	20	290
BH506_2.5	JBS&G 2022	7.6	2.3	81	4,200	640	0.4	18	730
BH506_4.0	JBS&G 2022	6.1	1.1	91	150	340	0.4	15	430
BH506_5.0	JBS&G 2022	5.0	0.9	25	100	330	0.2	11	430
BH506_6.5	JBS&G 2022	5.2	0.8	22	170	240	0.2	9.0	300
BH506_8.0	JBS&G 2022	10	13	9.4	48	180	0.1	7.1	4,300
BH506_9.0	JBS&G 2022	12	15	18	450	780	0.2	14	5,200
BH507_0.5	JBS&G 2022	<2	<0.4	27	39	<5	<0.1	38	46
BH507_1.5	JBS&G 2022	6.3	1.2	26	68	210	0.3	26	310
QA20220217_PG1	JBS&G 2022	4.6	0.7	25	90	240	0.4	33	240
QC20220217-PG1	JBS&G 2022	4	0.6	14	81	210	0.4	21	170
BH507_3.0	JBS&G 2022	4.1	0.5	13	59	140	0.2	13	190
BH507_4.5	JBS&G 2022	3.4	0.5	16	64	330	0.2	14	200
BH507_6.0	JBS&G 2022	4.7	0.6	22	100	250	0.3	23	300
BH507_7.5	JBS&G 2022	4.1	<0.4	12	69	290	0.3	6.0	200
BH507_9.0	JBS&G 2022	3.8	0.4	10	33	200	0.3	<5	200
BH507_10.5	JBS&G 2022	3.8	<0.4	14	40	210	0.2	<5	180
BH507_12.0	JBS&G 2022	6.0	0.5	16	68	280	0.4	6.4	260
BH508_0.5	JBS&G 2022	2.7	<0.4	7.2	84	26	<0.1	10	44
BH508_2.0	JBS&G 2022	5.3	<0.4	6.9	83	110	0.2	13	190
BH508_3.5	JBS&G 2022	5.4	<0.4	13	110	180	1.5	13	190
BH508_4.5	JBS&G 2022	6.6	<0.4	14	110	200	1.9	17	230
BH508_6.0	JBS&G 2022	<2	<0.4	<5	<5	9.8	<0.1	<5	63
BH508_7.0	JBS&G 2022	<2	<0.4	<5	9.4	60	0.1	<5	86
BH509_0.5	JBS&G 2022	<2	<0.4	<5	69	11	<0.1	6.9	34

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		Metals & Metalloids							
		Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL		2	0.4	1	1	1	0.1	1	1
NSW 2014 General Solid Waste CT1 (No Leaching)		100	20	100		100	4	40	
NSW 2014 General Solid Waste SCC1 (with leached)		500	100	1,900		1,500	50	1,050	
NSW 2014 Restricted Solid Waste CT2 (No Leaching)		400	80	400		400	16	160	
NSW 2014 Restricted Solid Waste SCC2 (with leached)		2,000	400	7,600		6,000	200	4,200	
Field ID	**Date**								
BH509_2.0	JBS&G 2022	7.3	1.3	14	110	370	0.5	14	320
BH509_2.5	JBS&G 2022	6.4	3.4	15	110	280	0.3	22	470
QA20220218PG3	JBS&G 2022	6.8	3.3	16	120	340	0.3	19	550
QC20220218-PG3	JBS&G 2022	7	2	14	110	250	0.4	17	380
BH509_3.5	JBS&G 2022	14	1.0	33	100	1,200	0.6	18	790
BH509_5.0	JBS&G 2022	14	0.9	21	100	320	0.4	17	520
BH509_6.5	JBS&G 2022	11	12	44	280	570	0.8	68	340
BH509_7.5	JBS&G 2022	6.7	18	18	350	510	0.3	23	270
BH510_1.0	JBS&G 2022	18	0.5	18	81	160	0.2	17	200
BH510_2.5	JBS&G 2022	14	1.2	25	160	400	0.6	25	510
BH510_4.0	JBS&G 2022	9.0	<0.4	21	36	110	0.1	6.8	180
BH510_5.5	JBS&G 2022	15	1.2	57	730	470	0.5	70	860
BH510_7.0	JBS&G 2022	11	0.8	35	360	380	0.4	38	590
BH510_8.0	JBS&G 2022	6.8	0.5	24	210	300	0.2	21	340
BH511_0.5	JBS&G 2022	<2	<0.4	5.6	44	17	<0.1	<5	32
BH511_2.0	JBS&G 2022	7.7	0.7	13	29	170	0.2	<5	89
BH511_3.5	JBS&G 2022	10.0	1.0	30	110	430	0.3	12	220
BH511_5.0	JBS&G 2022	6.8	0.4	28	61	270	0.2	6.4	130
BH511_6.5	JBS&G 2022	7.2	<0.4	19	170	560	0.9	17	360
BH511_8.0	JBS&G 2022	5.1	<0.4	11	96	360	0.4	6.7	280
BH512_0.5	JBS&G 2022	<2	<0.4	6.5	28	13	<0.1	6.2	23
BH512_2.0	JBS&G 2022	9.0	<0.4	13	46	180	0.1	8.4	180
QA20220218PG1	JBS&G 2022	10	<0.4	12	53	110	0.2	6.9	160
QC20220218-PG1	JBS&G 2022	<4	<0.4	8	36	76	0.1	4	91
BH512_2.5	JBS&G 2022	47	<0.4	26	180	720	0.1	12	140
BH512_3.5	JBS&G 2022	570	0.9	23	1,100	5,100	0.3	39	130
BH512_4.5	JBS&G 2022	77	0.6	16	170	1,100	0.2	12	81
BH512_5.5	JBS&G 2022	38	<0.4	16	95	360	0.2	25	74

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		Metals & Metalloi					TPHs (NEPC 1999)					TRHs (NEPC 2013)								BTEXN							
		Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum of Total)	C6-C10	C10-C16	C16-C34	C34-C40	C10-C40 (Sum of total)	F1 (C6-C10 minus BTEX)	F2 (C10-C16 less Naphthalene)	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Total BTEX	Naphthalene_VOC
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL		2	0.4	1	1	1	20	20	50	50	50	20	50	100	100	50	20	50	0.1	0.1	0.1	0.1	0.2	0.3		0.5
NSW 2014 General Solid Waste CT1 (No Leaching)		100	20	100		100	650				10,000								10	288	600			1,000		
NSW 2014 General Solid Waste SCC1 (with leached)		500	100	1,900		1,500	650				10,000								18	518	1,080			1,800		
NSW 2014 Restricted Solid Waste CT2 (No Leaching)		400	80	400		400	2,600				40,000								40	1,152	2,400			4,000		
NSW 2014 Restricted Solid Waste SCC2 (with leached)		2,000	400	7,600		6,000	2,600				40,000								72	2,073	4,320			7,200		
Field ID	**Date**																									
I3_3.9-4	Coffey 2011	4	0.4	9.5	59	140	<20	-	-	-	390	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
I3_5.4-5.5	Coffey 2011	4	<0.3	13	33	430	<20	-	-	-	97	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BHP3_0.5-0.6	Coffey 2011	5	0.5	8.2	90	130	<20	-	-	-	86	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BHP3_2-2.1	Coffey 2011	25	<0.3	11	55	200	<20	-	-	-	<120	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BHP3_5.5-5.6	Coffey 2011	3	<0.3	3.5	15	50	<20	-	-	-	<120	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH14_2-2.1	Coffey 2011	<3	<0.3	8.5	9.2	28	<20	-	-	-	305	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH14_5-5.1	Coffey 2011	5	<0.3	11	16	68	<20	-	-	-	<120	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH14_8.2-8.3	Coffey 2011	<3	<0.3	5.5	2.6	9	<20	-	-	-	<120	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
R31_0.5-0.6	Coffey 2011	6	0.9	13	150	430	<20	-	-	-	204	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
R32_0.5-0.6	Coffey 2011	4	0.5	8	120	1,100	<20	-	-	-	380	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
R32_2-2.1	Coffey 2011	8	0.8	27	190	210	<20	-	-	-	440	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
R33_1.5-1.6	Coffey 2011	9	0.5	43	300	310	<20	-	-	-	<120	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH7_0.2-0.4	HLA 2007	1	0.2	22	92	29	<10	-	-	-	430	-	-	-	-	-	-	-	<0.2	<0.5	<0.5	<0.1	<0.2	<0.3	-	-
BH7_8.8-9	HLA 2007	7	0.2	18	86	320	<10	-	-	-	<250	-	-	-	-	-	-	-	<0.2	<0.5	<0.5	<0.1	<0.2	<0.3	-	-
BH8_0.1-0.2	HLA 2007	<1	<0.1	19	81	3	<10	-	-	-	<250	-	-	-	-	-	-	-	<0.2	<0.5	<0.5	<0.1	<0.2	<0.3	-	-
BH8_6-6.5	HLA 2007	3	0.1	7	11	79	<10	-	-	-	<250	-	-	-	-	-	-	-	<0.2	<0.5	<0.5	<0.1	<0.2	<0.3	-	-
BH10_4.3-4.5	HLA 2007	4	0.2	15	50	120	<10	-	-	-	<250	-	-	-	-	-	-	-	<0.2	<0.5	<0.5	<0.1	<0.2	<0.3	-	-
BH10_7-7.5	HLA 2007	10	0.5	12	77	470	<10	-	-	-	<250	-	-	-	-	-	-	-	<0.2	<0.5	<0.5	<0.1	<0.2	<0.3	-	-
BH13_0.3-0.4	HLA 2007	8	0.4	8	85	220	<10	-	-	-	<250	-	-	-	-	-	-	-	<0.2	<0.5	<0.5	<0.1	<0.2	<0.3	-	-
BH13_7.6-8	HLA 2007	2	<0.1	5	13	79	<10	-	-	-	<250	-	-	-	-	-	-	-	<0.2	<0.5	<0.5	<0.1	<0.2	<0.3	-	-
FC062_0.1-0.2	JBS&G 2014	7.8	1.3	18	210	470	<20	<20	<50	<50	<50	<20	<50	<100	<100	125	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
QC05	JBS&G 2014	4.1	1.3	27	210	470	<20	<20	<50	<50	<50	<20	<50	<100	<100	125	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
QC05-A	JBS&G 2014	4	0.6	16	140	260	<25	<50	<100	<100	125	<25	<50	140	<100	215	<25	<50	<0.2	<0.5	<1	<1	<2	1.5	2.35	-
FC062_3.8-4	JBS&G 2014	2.6	0.4	7	59	120	<20	<20	<50	<50	<50	<20	<50	<100	<100	125	<20	<50	-	-	-	-	-	-	-	-
FC063_1.6-1.8	JBS&G 2014	9.7	1.2	20	190	400	<20	<20	260	370	630	<20	<50	510	590	1,125	<20	<50	-	-	-	-	-	-	-	-
FC063_3.8-4	JBS&G 2014	3.5	0.6	10	89	190	<20	<20	50	50	100	<20	<50	<100	<100	125	<20	<50	-	-	-	-	-	-	-	-
FC064_0.1-0.2	JBS&G 2014	41	5.3	26	160	350	<20	<20	<50	<50	<50	<20	<50	<100	<100	125	<20	<50	-	-	-	-	-	-	-	-
FC064_0.5-0.7	JBS&G 2014	<2	0.4	<5	50	41	<20	<20	<50	<50	<50	<20	<50	<100	<100	125	<20	<50	-	-	-	-	-	-	-	-
FC064_3.1-3.3	JBS&G 2014	33	23	120	830	5,900	<20	<20	53	100	150	<20	<50	140	<100	215	<20	<50	-	-	-	-	-	-	-	-
FC064_4.7-4.9	JBS&G 2014	11	1	13	750	75	<20	<20	<50	<50	<50	<20	<50	<100	<100	125	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
FC065_0.1-0.2	JBS&G 2014	<2	0.7	25	65	140	<20	<20	53	63	120	<20	<50	110	<100	185	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
FC065_0.5-0.7	JBS&G 2014	4.5	3.5	11	67,000	1,800	<20	<20	<50	<50	<50	<20	<50	<100	<100	125	<20	<50	-	-	-	-	-	-	-	-
FC065_1-1.2	JBS&G 2014	<2	1.3	18	77	460	<20	<20	2,000	1,200	3,200	<20	63	3,100	620	3,783	<20	63	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
FC065_2.3-2.5	JBS&G 2014	3	<0.4	6.6	130	230	<20	<20	<50	<50	<50	<20	<50	<100	<100	125	<20	<50	-	-	-	-	-	-	-	-
FC065_3-3.2	JBS&G 2014	15	<0.4	<5	77	140	<20	<20	<50	<50	<50	<20	<50	<100	<100	125	<20	<50	-	-	-	-	-	-	-	-
FC066_0.5-0.7	JBS&G 2014	3.9	0.8	11	190	310	<20	<20	58	<50	58	<20	<50	<100	<100	125	<20	<50	-	-	-	-	-	-	-	-
FC066_1.5-1.7	JBS&G 2014	3.8	3.6	12	170	300	<20	<20	300	140	440	<20	<50	400	110	535	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
FC066_2.5-2.7	JBS&G 2014	6.6	1.3	11	140	180	<20	<20	<50	<50	<50	<20	<50	<100	<100	125	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
FC066_3.1-3.3	JBS&G 2014	5.8	<0.4	<5	280	10	<20	<20	<50	<50	<50	<20	<50	<100	<100	125	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
FC067_0.5-0.6	JBS&G 2014	4.5	0.6	6.4	250	320	<20	<20	61	<50	61	<20	<50	<100	<100	125	<20	<50	-	-	-	-	-	-	-	-
FC067_0.9-1.1	JBS&G 2014	<2	<0.4	<5	45	43	<20	<20	<50	<50	<50	<20	<50	<100	<100	125	<20	<50	-	-	-	-	-	-	-	-
FC067_3.1-3.3	JBS&G 2014	<2	0.4	<5	72	180	<20	<20	<50	<50	<50	<20	<50	<100	<100	125	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
FC068_0.1-0.2	JBS&G 2014	4.3	2.2	20	450	350	<20	<20	69	75	140	<20	<50	120	<100	195	<20	<50	-	-	-	-	-	-	-	-
FC068_1.1-1.3	JBS&G 2014	5.2	3.4	13	190	430	<20	<20	55	<50	55	<20	<50	<100	<100	125	<20	<50	-	-	-	-	-	-	-	-
FC068_4.8-5	JBS&G 2014	2.6	0.8	5.8	82	340	<20	<20	370	480	850	<20	<50	790	340	1,155	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
FC069_6-6.1	JBS&G 2014	7.1	<0.4	39	24	99	<20	<20	640	390	1,000	<20	<50	1,000	190	1,215	<20	<50	-	-	-	-	-	-	-	-
FC069_8-8.1	JBS&G 2014	<2	<0.4	130	22	51	<20	<20	99	92	190	<20	<50	180	<100	255	<20	<50	-	-	-	-	-	-	-	-
FC070_0.1-0.2	JBS&G 2014	5.2	0.7	7.8	140	350	<20	<20	63	58	120	<20	<50	110	<100	185	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
FC070_0.5-0.6	JBS&G 2014	4.8	0.6	8.2	150	260	<20	<20	86	91	180	<20	<50	160	<100	235	<20	<50	-	-	-	-	-	-	-	-
FC070_6-6.1	JBS&G 2014	3	<0.4	15	<5	12	<20	<20	<50	<50	<50	<20	<50	<100	<100	125	<20	<50	-	-	-	-	-	-	-	-
QC18	JBS&G 2014	<2	<0.4	25	<5	19	<20	<20	<50	<50	<50	<20	<50	<100	<100	125	<20	<50	-	-	-	-	-	-	-	-
QC18-A	JBS&G 2014	<4	<0.4	16	2	12	<25	<50	<100	<100	125	<25	<50	<100	<100	125	-	-	-	-	-	-	-	-	-	-
FC071_0.5-0.8	JBS&G 2014	10	0.4	8.4	120	300	<20	<20	290	320	610	<20	<50	560	200	785	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
FC071_2.8-3	JBS&G 2014	5.8	<0.4	<5	19	780	<20	<20	<50	<50	<50	<20	<50	<100	<100	125	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
FC071_4.8-5	JBS&G 2014	46	0.6	6.8	95	520	<20	<20	170	180	350	<20	<50	320	110	455	<20	<50	-	-	-	-	-	-	-	-
FC071_6-6.1	JBS&G 2014	6.7	<0.4	38	41	160	<20	<20	100	82	180	<20	<50	180	<100	255	<20	<50	-	-	-	-	-	-	-	-
FC071_8-8.1	JBS&G 2014	4.3	<0.4	42	18	97	<20	<20	<50	<50	<50	<20	<50	<100	<100	125	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-

Table A - Soil
Project Number: 69329
Project Name: Stage 3, GSTC - 960A Bourke Street, Zetland NSW

		Metals & Metalloi					TPHs (NEPC 1999)					TRHs (NEPC 2013)								BTEXN							
		Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum of Total)	C6-C10	C10-C16	C16-C34	C34-C40	C10-C40 (Sum of total)	F1 (C6-C10 minus BTEX)	F2 (C10-C16 less Naphthalene)	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Total BTEX	Naphthalene_VOC
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL		2	0.4	1	1	1	20	20	50	50	50	20	50	100	100	50	20	50	0.1	0.1	0.1	0.1	0.2	0.3		0.5
NSW 2014 General Solid Waste CT1 (No Leaching)		100	20	100		100	650				10,000								10	288	600			1,000		
NSW 2014 General Solid Waste SCC1 (with leached)		500	100	1,900		1,500	650				10,000								18	518	1,080			1,800		
NSW 2014 Restricted Solid Waste CT2 (No Leaching)		400	80	400		400	2,600				40,000								40	1,152	2,400			4,000		
NSW 2014 Restricted Solid Waste SCC2 (with leached)		2,000	400	7,600		6,000	2,600				40,000								72	2,073	4,320			7,200		
Field ID	**Date**																										
FC072_0.4-0.6	JBS&G 2014	<2	<0.4	<5	<5	<5	<20	<20	<50	<50	<50	<20	<50	<100	<100	125	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
FC072_1.5-0.7	JBS&G 2014	<2	<0.4	8.3	<5	6.2	<20	<20	<50	<50	<50	<20	<50	<100	<100	125	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
FC072_2.9-3.1	JBS&G 2014	<2	<0.4	<5	5.4	14	<20	<20	<50	<50	<50	<20	<50	<100	<100	125	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
FC072_6-6.1	JBS&G 2014	5.2	<0.4	33	22	110	<20	<20	<50	67	67	<20	<50	110	<100	185	<20	<50	-	-	-	-	-	-	-	-
FC053_0-0.1	JBS&G 2014	4.3	0.4	9.9	63	130	<20	<20	71	83	150	<20	<50	150	<100	225	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
FC053_2-2.1	JBS&G 2014	9	0.5	10	66	200	<20	<20	680	320	1,000	<20	<50	930	180	1,135	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
FC054_0.5	JBS&G 2014	4.5	0.8	7	38	110	<20	<20	<50	<50	<50	<20	<50	<100	<100	125	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
FC054_1-1.1	JBS&G 2014	3.9	<0.4	5.9	23	55	<20	<20	67	<50	67	<20	<50	110	<100	185	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
FC055_0-0.1	JBS&G 2014	22	2.8	14	200	8,600	<20	<20	180	230	410	<20	<50	380	140	545	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
QC01	JBS&G 2014	11	1.2	26	370	780	<20	<20	580	440	1,000	<20	<50	970	220	1,215	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
QC01-A	JBS&G 2014	9	1.4	12	100	1,500	<25	<50	<100	190	265	<25	<50	240	120	385	<25	<50	<0.2	<0.5	<1	<1	<2	1.5	2.35	-
FC055_1-1.1	JBS&G 2014	5	0.7	7.8	78	470	<20	20	3,000	1,900	4,900	<20	82	4,600	900	5,582	<20	82	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
FC055_4-4.1	JBS&G 2014	11	1.6	26	2,700	1,100	<20	<20	760	560	1,300	<20	<50	1,200	270	1,495	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
FC056_2-2.1	JBS&G 2014	12	<0.4	<5	110	250	<20	<20	<50	<50	<50	<20	<50	<100	<100	125	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
FC056_3-3.1	JBS&G 2014	12	0.4	10	32	90	<20	<20	<50	<50	<50	<20	<50	<100	<100	125	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
FC057_0-0.1	JBS&G 2014	<2	1.6	33	230	340	<20	<20	330	280	610	<20	<50	670	120	815	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
FC057_2-2.1	JBS&G 2014	<2	1.3	11	280	460	<20	<20	81	140	220	<20	<50	220	<100	295	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
FC058_0.5-0.6	JBS&G 2014	<2	1.8	8	110	240	<20	<20	77	95	170	<20	<50	180	<100	255	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
QC02	JBS&G 2014	3.8	1.6	9.1	120	500	<20	<20	<50	61	61	<20	<50	120	<100	195	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
QC02-A	JBS&G 2014	8	0.5	10	93	330	<25	<50	190	150	365	<25	<50	280	<100	355	<25	<50	<0.2	<0.5	<1	<1	<2	1.5	2.35	-
FC058_5-5.1	JBS&G 2014	<2	3	14	170	550	<20	<20	79	100	180	<20	<50	190	<100	265	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
FC059_0.5-0.6	JBS&G 2014	<2	1.9	19	120	570	<20	<20	160	130	290	<20	<50	320	<100	395	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
FC059_1-1.1	JBS&G 2014	30	3.8	46	3,100	2,400	<20	<20	460	340	800	<20	<50	910	130	1,065	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
FC060_1-1.1	JBS&G 2014	<2	4.9	30	240	680	<20	<20	56	82	140	<20	<50	150	<100	225	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
FC060_2-2.1	JBS&G 2014	4.6	3.1	47	760	1,600	<20	<20	600	750	1,400	<20	<50	1,500	400	1,925	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
FC060_3-3.1	JBS&G 2014	8.2	3.3	17	1,000	700	<20	<20	300	420	720	<20	<50	780	170	975	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
FC061_1-1.1	JBS&G 2014	<2	1.7	13	170	380	<20	<20	150	160	310	<20	<50	340	<100	415	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
FC061_3-3.1	JBS&G 2014	<2	5.6	26	220	490	<20	<20	110	120	230	<20	<50	240	<100	315	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.15	0.3	-
BH500_0.5	JBS&G 2022	<2	<0.4	5.5	30	11	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH500_2.0	JBS&G 2022	8.8	<0.4	10	34	36	<20	<20	250	220	470	<20	<50	420	150	570	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
QA20220217_PG6	JBS&G 2022	8.5	<0.4	11	43	39	<20	<20	250	150	400	<20	<50	380	<100	380	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
QC20220217-PG6	JBS&G 2022	9	<0.4	6	31	22	<25	<50	180	120	290	<25	<50	280	<100	280	<25	<50	<0.2	<0.5	<1	<1	<2	<1	-	-
BH500_3.5	JBS&G 2022	11	<0.4	21	18	120	<20	<20	700	120	820	<20	<50	910	310	1,220	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH500_5.0	JBS&G 2022	4.2	<0.4	19	14	130	<20	<20	85	72	157	<20	<50	140	<100	140	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH500_6.5	JBS&G 2022	5.6	<0.4	17	29	48	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH500_8.0	JBS&G 2022	7.8	<0.4	13	36	27	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH500_9.5	JBS&G 2022	6.7	<0.4	12	30	35	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH500_11.0	JBS&G 2022	10	<0.4	12	26	28	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH501_1.0	JBS&G 2022	8.0	0.6	19	110	320	<20	<20	280	<50	280	<20	<50	320	110	430	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH501_2.5	JBS&G 2022	24	0.6	35	250	340	<20	200	2,800	1,300	4,300	<20	280	3,700	520	4,500	<20	280	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH501_4.0	JBS&G 2022	11	0.6	23	130	320	<20	21	370	270	661	<20	<50	630	160	790	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
QA20220217_PG5	JBS&G 2022	8.6	0.4	19	140	260	<20	39	700	110	849	<20	67	850	210	1,127	<20	67	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
QC20220217-PG5	JBS&G 2022	6	<0.4	12	70	180	<25	<50	220	190	410	<25	<50	370	<100	370	<25	<50	<0.2	<0.5	<1	<1	<2	<1	-	-
BH501_5.5	JBS&G 2022	11	0.6	25	630	500	<20	<20	220	150	370	<20	<50	330	<100	330	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH501_7.0	JBS&G 2022	12	0.7	32	77	330	<20	<20	76	<50	76	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH501_8.5	JBS&G 2022	15	<0.4	33	67	210	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH501_10.0	JBS&G 2022	14	<0.4	24	45	170	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH501_11.5	JBS&G 2022	8.7	<0.4	13	7.0	21	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH502_1.0	JBS&G 2022	13	0.5	23	200	280	<20	<20	160	130	290	<20	<50	260	<100	260	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH502_2.0	JBS&G 2022	8.3	<0.4	20	94	170	<20	<20	480	58	538	<20	<50	490	<100	490	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH502_3.5	JBS&G 2022	6.4	<0.4	20	310	120	<20	<20	950	320	1,270	<20	<50	1,100	170	1,270	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH502_5.0	JBS&G 2022	4.7	<0.4	13	110	310	<20	20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH502_6.5	JBS&G 2022	4.9	<0.4	13	110	360	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH502_8.0	JBS&G 2022	5.5	<0.4	18	100	250	<20	<20	74	<50	74	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH502_9.5	JBS&G 2022	4.9	<0.4	19	88	220	<20	<20	170	80	250	<20	<50	230	<100	230	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH502_11.0	JBS&G 2022	12	<0.4	25	23	25	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH502_12.5	JBS&G 2022	6.0	<0.4	14	50	96	<20	<20	110	<50	110	<20	<50	120	<100	120	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-

Table A - Soil
Project Number: 69329
Project Name: Stage 3, GSTC - 960A Bourke Street, Zetland NSW

		Metals & Metalloi					TPHs (NEPC 1999)					TRHs (NEPC 2013)								BTEXN							
		Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum of Total)	C6-C10	C10-C16	C16-C34	C34-C40	C10-C40 (Sum of total)	F1 (C6-C10 minus BTEX)	F2 (C10-C16 less Naphthalene)	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Total BTEX	Naphthalene_VOC
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL		2	0.4	1	1	1	20	20	50	50	50	20	50	100	100	50	20	50	0.1	0.1	0.1	0.1	0.2	0.3		0.5
NSW 2014 General Solid Waste CT1 (No Leaching)		100	20	100		100	650				10,000								10	288	600			1,000		
NSW 2014 General Solid Waste SCC1 (with leached)		500	100	1,900		1,500	650				10,000								18	518	1,080			1,800		
NSW 2014 Restricted Solid Waste CT2 (No Leaching)		400	80	400		400	2,600				40,000								40	1,152	2,400			4,000		
NSW 2014 Restricted Solid Waste SCC2 (with leached)		2,000	400	7,600		6,000	2,600				40,000								72	2,073	4,320			7,200		
Field ID	**Date**																										
BH503_0.5	JBS&G 2022	2.2	<0.4	12	27	25	<20	<20	81	110	191	<20	<50	160	110	270	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH503_2.0	JBS&G 2022	8.0	0.8	18	440	540	<20	<20	490	96	586	<20	<50	640	180	820	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH503_3.5	JBS&G 2022	12	1.3	26	440	1,600	<20	<20	300	250	550	<20	<50	480	160	640	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH503_5.0	JBS&G 2022	23	3.0	62	2,600	2,300	<20	30	580	370	980	<20	<50	850	180	1,030	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH503_6.5	JBS&G 2022	11	1.2	36	970	630	<20	<20	400	57	457	<20	<50	480	130	610	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH503_8.0	JBS&G 2022	20	0.5	27	200	1,400	<20	<20	73	60	133	<20	<50	110	<100	110	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH503_9.5	JBS&G 2022	16	0.7	34	880	820	<20	<20	180	<50	180	<20	<50	200	<100	200	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH503_11.0	JBS&G 2022	9.4	0.7	21	220	720	<20	<20	59	<50	59	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH503_12.5	JBS&G 2022	6.2	<0.4	17	26	58	<20	<20	120	<50	120	<20	<50	140	<100	140	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH504_0.5	JBS&G 2022	3.8	<0.4	28	71	51	<20	<40	160	300	460	<20	<100	360	340	700	<20	<100	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
QA20220217_PG2	JBS&G 2022	3.6	0.4	16	66	220	<20	<20	130	120	250	<20	<50	210	<100	210	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
QC20220217-PG2	JBS&G 2022	<4	0.5	18	170	210	<25	<50	<100	<100	<50	<25	<50	130	<100	130	<25	<50	<0.2	<0.5	<1	<1	<2	<1	-	-
BH504_2.0	JBS&G 2022	3.4	<0.4	13	65	230	<20	<40	1,100	220	1,320	<20	<100	1,400	360	1,760	<20	<100	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH504_3.5	JBS&G 2022	4.4	0.6	38	130	260	<20	<40	300	300	600	<20	<100	500	270	770	<20	<100	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
QA20220217_PG3	JBS&G 2022	3.8	0.5	18	130	280	<20	<20	380	310	690	<20	<50	600	210	810	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
QC20220217-PG3	JBS&G 2022	<4	<0.4	14	110	170	<25	<50	320	280	600	<25	<50	520	170	690	<25	<50	<0.2	<0.5	<1	<1	<2	<1	-	-
BH504_4.5	JBS&G 2022	6.4	1.2	24	210	470	<20	<40	350	<100	350	<20	<100	480	<200	480	<20	<100	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH504_6.0	JBS&G 2022	12	1.5	23	360	840	<20	<40	500	390	890	<20	<100	790	270	1,060	<20	<100	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH504_7.5	JBS&G 2022	32	1.3	41	2,900	2,800	<20	<20	85	<50	85	<20	<50	130	<100	130	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH504_9.0	JBS&G 2022	14	0.6	21	420	500	<20	<40	1,700	180	1,880	<20	<100	2,000	<200	2,000	<20	<100	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH504_10.5	JBS&G 2022	19	0.6	25	250	560	<20	<20	170	98	268	<20	<50	270	<100	270	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH504_12.0	JBS&G 2022	20	0.5	180	570	3,500	<20	<20	110	<50	110	<20	<50	170	<100	170	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH505_1.5	JBS&G 2022	7.6	0.8	16	100	270	<20	<20	220	130	350	<20	<50	330	<100	330	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH505_3.0	JBS&G 2022	11	1.1	22	160	430	<20	<20	180	<50	180	<20	<50	250	<100	250	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
QA20220217_PG4	JBS&G 2022	9.5	0.9	26	150	410	<20	<20	270	<50	270	<20	<50	330	<100	330	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
QC20220217-PG4	JBS&G 2022	6	0.8	15	100	290	<25	<50	150	140	290	<25	<50	270	<100	270	<25	<50	<0.2	<0.5	<1	<1	<2	<1	-	-
BH505_4.5	JBS&G 2022	10	36	24	130	280	<20	<20	200	110	310	<20	<50	300	<100	300	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH505_6.0	JBS&G 2022	7.4	1.0	27	190	2,300	<20	<20	210	<50	210	<20	<50	310	<100	310	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH505_7.5	JBS&G 2022	7.4	1.2	36	140	390	<20	<20	170	120	290	<20	<50	280	<100	280	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH505_9.0	JBS&G 2022	8.1	1.2	31	130	470	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH505_10.5	JBS&G 2022	9.4	1.0	31	130	400	<20	<40	280	<100	280	<20	<100	370	<200	370	<20	<100	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH505_11.5	JBS&G 2022	8.5	1.3	22	140	360	<20	<40	350	240	590	<20	<100	510	<200	510	<20	<100	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH506_1.0	JBS&G 2022	6.6	0.5	27	110	240	<20	<40	180	<100	180	<20	<100	250	<200	250	<20	<100	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH506_2.5	JBS&G 2022	7.6	2.3	81	4,200	640	<20	<40	200	180	380	<20	<100	330	<200	330	<20	<100	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH506_4.0	JBS&G 2022	6.1	1.1	91	150	340	<20	<40	240	<100	240	<20	<100	310	<200	310	<20	<100	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH506_5.0	JBS&G 2022	5.0	0.9	25	100	330	<20	<20	90	59	149	<20	<50	140	<100	140	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH506_6.5	JBS&G 2022	5.2	0.8	22	170	240	<20	<20	160	<50	160	<20	<50	220	<100	220	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH506_8.0	JBS&G 2022	10	13	9.4	48	180	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH506_9.0	JBS&G 2022	12	15	18	450	780	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH507_0.5	JBS&G 2022	<2	<0.4	27	39	<5	<20	<200	<500	760	760	<20	<500	<1,000	1,100	1,100	<20	<500	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH507_1.5	JBS&G 2022	6.3	1.2	26	68	210	<20	45	110	<50	155	<20	<50	190	<100	190	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
QA20220217_PG1	JBS&G 2022	4.6	0.7	25	90	240	<20	<20	260	<50	260	<20	<50	360	170	530	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
QC20220217-PG1	JBS&G 2022	4	0.6	14	81	210	<25	<50	120	160	280	<25	<50	250	120	360	<25	<50	<0.2	<0.5	<1	<1	<2	<1	-	-
BH507_3.0	JBS&G 2022	4.1	0.5	13	59	140	<20	<20	110	97	207	<20	<50	190	<100	190	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH507_4.5	JBS&G 2022	3.4	0.5	16	64	330	<20	<20	220	<50	220	<20	<50	320	120	440	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH507_6.0	JBS&G 2022	4.7	0.6	22	100	250	<20	<20	120	130	250	<20	<50	240	110	350	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH507_7.5	JBS&G 2022	4.1	<0.4	12	69	290	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH507_9.0	JBS&G 2022	3.8	0.4	10	33	200	<20	<20	400	170	570	<20	<50	520	<100	520	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH507_10.5	JBS&G 2022	3.8	<0.4	14	40	210	<20	<20	170	80	250	<20	<50	230	<100	230	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH507_12.0	JBS&G 2022	6.0	0.5	16	68	280	<20	<20	190	87	277	<20	<50	250	<100	250	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH508_0.5	JBS&G 2022	2.7	<0.4	7.2	84	26	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH508_2.0	JBS&G 2022	5.3	<0.4	6.9	83	110	<20	<20	110	<50	110	<20	<50	150	<100	150	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH508_3.5	JBS&G 2022	5.4	<0.4	13	110	180	<20	110	400	240	750	<20	<100	560	<200	560	<20	<100	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH508_4.5	JBS&G 2022	6.6	<0.4	14	110	200	<20	<20	250	190	440	<20	<50	390	110	500	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH508_6.0	JBS&G 2022	<2	<0.4	<5	<5	9.8	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH508_7.0	JBS&G 2022	<2	<0.4	<5	9.4	60	<20	<20	94	<50	94	<20	<50	110	<100	110	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH509_0.5	JBS&G 2022	<2	<0.4	<5	69	11	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-

Table A - Soil
Project Number: 69329
Project Name: Stage 3, GSTC - 960A Bourke Street, Zetland NSW

		Metals & Metalloi					TPHs (NEPC 1999)					TRHs (NEPC 2013)								BTEXN							
		Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum of Total)	C6-C10	C10-C16	C16-C34	C34-C40	C10-C40 (Sum of total)	F1 (C6-C10 minus BTEX)	F2 (C10-C16 less Naphthalene)	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Total BTEX	Naphthalene_VOC
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL		2	0.4	1	1	1	20	20	50	50	50	20	50	100	100	50	20	50	0.1	0.1	0.1	0.1	0.2	0.3		0.5
NSW 2014 General Solid Waste CT1 (No Leaching)		100	20	100		100	650				10,000								10	288	600			1,000		
NSW 2014 General Solid Waste SCC1 (with leached)		500	100	1,900		1,500	650				10,000								18	518	1,080			1,800		
NSW 2014 Restricted Solid Waste CT2 (No Leaching)		400	80	400		400	2,600				40,000								40	1,152	2,400			4,000		
NSW 2014 Restricted Solid Waste SCC2 (with leached)		2,000	400	7,600		6,000	2,600				40,000								72	2,073	4,320			7,200		
Field ID	**Date**																									
BH509_2.0	JBS&G 2022	7.3	1.3	14	110	370	<20	<20	170	<50	170	<20	<50	220	<100	220	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH509_2.5	JBS&G 2022	6.4	3.4	15	110	280	<20	<20	610	590	1,200	<20	<50	1,100	320	1,420	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
QA20220218PG3	JBS&G 2022	6.8	3.3	16	120	340	<20	<20	190	160	350	<20	<50	330	100	430	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
QC20220218-PG3	JBS&G 2022	7	2	14	110	250	<25	<50	150	180	320	<25	<50	290	<100	290	<25	<50	<0.2	<0.5	<1	<1	<2	<1	-	-
BH509_3.5	JBS&G 2022	14	1.0	33	100	1,200	<20	<20	560	81	641	<20	<50	700	210	910	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH509_5.0	JBS&G 2022	14	0.9	21	100	320	<20	52	2,600	1,200	3,852	<20	180	3,400	660	4,240	<20	180	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH509_6.5	JBS&G 2022	11	12	44	280	570	<20	<20	180	<50	180	<20	<50	220	<100	220	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH509_7.5	JBS&G 2022	6.7	18	18	350	510	<20	<20	58	67	125	<20	<50	100	<100	100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH510_1.0	JBS&G 2022	18	0.5	18	81	160	<20	<20	140	<50	140	<20	<50	190	<100	190	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH510_2.5	JBS&G 2022	14	1.2	25	160	400	<20	<20	170	120	290	<20	<50	250	<100	250	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH510_4.0	JBS&G 2022	9.0	<0.4	21	36	110	<20	<20	210	<50	210	<20	<50	240	<100	240	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH510_5.5	JBS&G 2022	15	1.2	57	730	470	<20	<20	260	180	440	<20	<50	390	100	490	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH510_7.0	JBS&G 2022	11	0.8	35	360	380	<20	<20	350	250	600	<20	<50	540	140	680	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH510_8.0	JBS&G 2022	6.8	0.5	24	210	300	<20	<20	180	130	310	<20	<50	270	<100	270	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH511_0.5	JBS&G 2022	<2	<0.4	5.6	44	17	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH511_2.0	JBS&G 2022	7.7	0.7	13	29	170	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH511_3.5	JBS&G 2022	10.0	1.0	30	110	430	<20	<20	75	52	127	<20	<50	110	<100	110	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH511_5.0	JBS&G 2022	6.8	0.4	28	61	270	<20	<20	88	66	154	<20	<50	130	<100	130	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH511_6.5	JBS&G 2022	7.2	<0.4	19	170	560	<20	<20	80	64	144	<20	<50	130	<100	130	<20	<50	0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH511_8.0	JBS&G 2022	5.1	<0.4	11	96	360	<20	<20	90	56	146	<20	<50	130	<100	130	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH512_0.5	JBS&G 2022	<2	<0.4	6.5	28	13	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH512_2.0	JBS&G 2022	9.0	<0.4	13	46	180	<20	<20	64	<50	64	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
QA20220218PG1	JBS&G 2022	10	<0.4	12	53	110	<20	<20	58	<50	58	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
QC20220218-PG1	JBS&G 2022	<4	<0.4	8	36	76	<25	<50	<100	<100	<50	<25	<50	<100	<100	<50	<25	<50	<0.2	<0.5	<1	<1	<2	<1	-	-
BH512_2.5	JBS&G 2022	47	<0.4	26	180	720	<20	<20	52	<50	52	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	-
BH512_3.5	JBS&G 2022	570	0.9	23	1,100	5,100	<200	460	9,300	3,200	12,960	<200	1,400	11,000	1,600	14,000	<200	1,370	<1	<1	<1	<1	<2	<3	-	-
BH512_4.5	JBS&G 2022	77	0.6	16	170	1,100	<200	500	9,200	3,200	12,900	<200	1,300	11,000	1,700	14,000	<200	1,238	<1	<1	<1	<1	<2	<3	-	-
BH512_5.5	JBS&G 2022	38	<0.4	16	95	360	<200	<200	3,600	1,400	5,000	<200	<500	4,400	<1,000	4,400	<200	<500	<1	<1	<1	<1	<2	<3	-	-

Table A - Soil
Project Number: 69329
Project Name: Stage 3, GSTC - 960A Bourke Street, Zetland NSW

						Metals & Metalloi																													
						PAH																													
		Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Benzo(a)pyrene TEQ (lower bound)*	Benzo(a)pyrene TEQ (upper bound)*	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(a)pyrene TEQ	Benzo(a)pyrene TEQ (LOR)	Benzo(a)pyrene TEQ calc (Half)	Benzo(a)pyrene TEQ calc (Zero)	Benzo(b+j)fluoranthene	Benzo(b+j+k)fluoranthene	Benzo(b+k)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Naphthalene - PAH	Phenanthrene	Pyrene	Carcinogenic PAHs as B(a)P TEQ	PAHs (Sum of total)
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL		2	0.4	1	1	1			0.1	0.1	0.1	0.1	0.05		0.5	0.5	0.5	0.5	0.2		0.1	0.5	0.1	0.1	0.1	0.1	0.1	0.1	0.5	0.1	0.1		0.05
NSW 2014 General Solid Waste CT1 (No Leaching)		100	20	100		100							0.8																						
NSW 2014 General Solid Waste SCC1 (with leached)		500	100	1,900		1,500							10																						
NSW 2014 Restricted Solid Waste CT2 (No Leaching)		400	80	400		400							3.2																						
NSW 2014 Restricted Solid Waste SCC2 (with leached)		2,000	400	7,600		6,000							23																						
Field ID	**Date**																																		
I3_3.9-4	Coffey 2011	4	0.4	9.5	59	140	-	-	-	-	-	-	4.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.9	-
I3_5.4-5.5	Coffey 2011	4	<0.3	13	33	430	-	-	-	-	-	-	2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.1	-
BHP3_0.5-0.6	Coffey 2011	5	0.5	8.2	90	130	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-
BHP3_2-2.1	Coffey 2011	25	<0.3	11	55	200	-	-	-	-	-	-	1.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.6	-
BHP3_5.5-5.6	Coffey 2011	3	<0.3	3.5	15	50	-	-	-	-	-	-	0.67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.67	-
BH14_2-2.1	Coffey 2011	<3	<0.3	8.5	9.2	28	-	-	-	-	-	-	3.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.6	-
BH14_5-5.1	Coffey 2011	5	<0.3	11	16	68	-	-	-	-	-	-	0.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.16	-
BH14_8.2-8.3	Coffey 2011	<3	<0.3	5.5	2.6	9	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	-
R31_0.5-0.6	Coffey 2011	6	0.9	13	150	430	-	-	-	-	-	-	2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.8	-
R32_0.5-0.6	Coffey 2011	4	0.5	8	120	1,100	-	-	-	-	-	-	3.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.4	-
R32_2-2.1	Coffey 2011	8	0.8	27	190	210	-	-	-	-	-	-	2.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.7	-
R33_1.5-1.6	Coffey 2011	9	0.5	43	300	310	-	-	-	-	-	-	0.34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.34	-
BH7_0.2-0.4	HLA 2007	1	0.2	22	92	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH7_8.8-9	HLA 2007	7	0.2	18	86	320	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH8_0.1-0.2	HLA 2007	<1	<0.1	19	81	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH8_6-6.5	HLA 2007	3	0.1	7	11	79	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH10_4.3-4.5	HLA 2007	4	0.2	15	50	120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH10_7-7.5	HLA 2007	10	0.5	12	77	470	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH13_0.3-0.4	HLA 2007	8	0.4	8	85	220	-	-	-	-	-	-	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	-
BH13_7.6-8	HLA 2007	2	<0.1	5	13	79	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC062_0.1-0.2	JBS&G 2014	7.8	1.3	18	210	470	2.4	2.9	<0.5	<0.5	<0.5	1.5	1.7	-	-	2.6	-	1.1	-	-	1.4	2.1	1.5	<0.5	2.6	<0.5	1.1	<0.5	-	1.2	2.8	2.559	17
QC05	JBS&G 2014	4.1	1.3	27	210	470	1.6	2.1	<0.5	<0.5	0.5	1.1	1.1	-	-	1.8	-	1	-	-	0.8	1.2	1	<0.5	2.1	<0.5	0.6	<0.5	-	1.6	2.1	1.758	13.1
QC05-A	JBS&G 2014	4	0.6	16	140	260	-	-	<0.1	0.3	0.5	2	2.6	4	-	-	-	-	4	1.7	-	2.1	0.3	4	0.1	1.8	<0.1	-	2.2	4.2	3.318	25.8
FC062_3.8-4	JBS&G 2014	2.6	0.4	7	59	120	<0.5	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	0.6	-	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	0.605	-
FC063_1.6-1.8	JBS&G 2014	9.7	1.2	20	190	400	13	13	<0.5	3.4	4.2	7.9	9	-	-	13	-	4.7	-	-	4.9	9.4	7.2	1.5	15	2.1	4.5	1.1	-	11	13	13.27	98.9
FC063_3.8-4	JBS&G 2014	3.5	0.6	10	89	190	1.7	2.2	<0.5	<0.5	<0.5	1	1.2	-	-	1.9	-	0.8	-	-	0.9	1.3	1.1	<0.5	1.6	<0.5	0.8	<0.5	-	<0.5	1.8	1.86	10.5
FC064_0.1-0.2	JBS&G 2014	41	5.3	26	160	350	1.8	2.3	<0.5	<0.5	0.6	1.4	1.4	-	-	2	-	1.3	-	-	0.8	0.7	1.3	<0.5	3.1	<0.5	0.7	<0.5	-	1.7	2.8	2.081	15.8
FC064_0.5-0.7	JBS&G 2014	<2	0.4	<5	50	41	<0.5	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	0.6	-	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	0.605	-
FC064_3.1-3.3	JBS&G 2014	33	23	120	830	5,900	1.1	1.6	<0.5	<0.5	<0.5	0.5	0.9	-	-	1.3	-	0.8	-	-	0.9	<0.5	0.5	<0.5	0.8	<0.5	0.6	<0.5	-	<0.5	0.8	1.379	5.8
FC064_4.7-4.9	JBS&G 2014	11	1	13	750	75	1.4	1.9	<0.5	<0.5	<0.5	0.6	1.1	-	-	1.7	-	1.3	-	-	1	0.6	0.6	<0.5	<0.5	<0.5	0.8	<0.5	-	<0.5	0.5	1.696	6.5
FC065_0.1-0.2	JBS&G 2014	<2	0.7	25	65	140	0.9	1.5	<0.5	<0.5	<0.5	0.7	0.7	-	-	1.2	-	0.9	-	-	<0.5	<0.5	0.7	<0.5	1.5	<0.5	<0.5	<0.5	-	0.9	1.5	1.17	6.9
FC065_0.5-0.7	JBS&G 2014	4.5	3.5	11	67,000	1,800	1	1.6	<0.5	<0.5	<0.5	0.9	0.9	-	-	1.3	-	0.8	-	-	0.5	<0.5	0.8	<0.5	1.6	<0.5	<0.5	<0.5	-	0.7	1.6	1.383	7.8
FC065_1-1.2	JBS&G 2014	<2	1.3	18	77	460	57	57	2.7	3.6	13	38	40	-	-	57	-	35	-	-	23	16	34	5.6	77	3.6	19	0.8	-	34	79	56.97	421.6
FC065_2.3-2.5	JBS&G 2014	3	<0.4	6.6	130	230	1.6	2.1	<0.5	<0.5	<0.5	1.2	1.3	-	-	1.9	-	1.1	-	-	0.7	0.6	1.1	<0.5	2.4	<0.5	0.7	<0.5	-	1.6	2.3	1.928	13
FC065_3-3.2	JBS&G 2014	15	<0.4	<5	77	140	0.9	1.5	<0.5	<0.5	<0.5	0.5	0.8	-	-	1.2	-	0.7	-	-	0.6	<0.5	0.5	<0.5	0.7	<0.5	<0.5	<0.5	-	<0.5	0.8	1.231	4.6
FC066_0.5-0.7	JBS&G 2014	3.9	0.8	11	190	310	2	2.5	<0.5	<0.5	<0.5	1.4	1.5	-	-	2.2	-	1.3	-	-	1	0.8	1.2	<0.5	2.4	<0.5	0.8	<0.5	-	0.9	2.4	2.202	13.7
FC066_1.5-1.7	JBS&G 2014	3.8	3.6	12	170	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	-	-	-	-
FC066_2.5-2.7	JBS&G 2014	6.6	1.3	11	140	180	1.1	1.7	<0.5	<0.5	<0.5	0.8	0.9	-	-	1.4	-	0.9	-	-	0.7	<0.5	0.7	<0.5	1.4	<0.5	0.5	<0.5	-	0.7	1.4	1.409	8
FC066_3.1-3.3	JBS&G 2014	5.8	<0.4	<5	280	10	<0.5	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	0.6	-	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	0.605	-
FC067_0.5-0.6	JBS&G 2014	4.5	0.6	6.4	250	320	3.3	3.8	<0.5	<0.5	0.7	2.5	2.5	-	-	3.5	-	2.6	-	-	1.6	1.2	2.2	<0.5	4.7	<0.5	1.3	<0.5	-	1.2	4.6	3.548	25.1
FC067_0.9-1.1	JBS&G 2014	<2	<0.4	<5	45	43	<0.5	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	0.6	-	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	0.605	-
FC067_3.1-3.3	JBS&G 2014	<2	0.4	<5	72	180	<0.5	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	0.6	-	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	0.605	-
FC068_0.1-0.2	JBS&G 2014	4.3	2.2	20	450	350	2.4	2.9	<0.5	<0.5	<0.5	1.7	1.8	-	-	2.6	-	1.9	-	-	1.1	0.8	1.6	<0.5	3	<0.5	0.9	<0.5	-	1.2	2.7	2.607	16.7
FC068_1.1-1.3	JBS&G 2014	5.2	3.4	13	190	430	2	2.5	<0.5	<0.5	<0.5	1.4	1.5	-	-	2.3	-	1.7	-	-	1	0.8	1.3	<0.5	2.3	<0.5	0.8	<0.5	-	1.1	2.4	2.243	14.3
FC068_4.8-5	JBS&G 2014	2.6	0.8	5.8	82	340	1.4	1.9	<0.5	<0.5	<0.5	0.9	1	-	-	1.6	-	1	-	-	1.1	0.5	0.8	<0.5	1.4	<0.5	0.7	<0.5	-	0.8	1.5	1.579	9.7
FC069_6-6.1	JBS&G 2014	7.1	<0.4	39	24	99	28	28	1	5	13	23	19	-	-	28	-	11	-	-	8.6	18	19	2.7	45	4.4	8.5	2.7	-	39	40	28.03	259.9
FC069_8-8.1	JBS&G 2014	<2	<0.4	130	22	51	4.4	4.9	<0.5	1.1	1.9	3.7	3.3	-	-	4.6	-	2.2	-	-	1.4	3.1	3.2	<0.5	6.9	0.5	1.4	<0.5	-	4.9	6.6	4.636	40.2
FC070_0.1-0.2	JBS&G 2014	5.2	0.7	7.8	140	350	4.5	5	<0.5	<0.5	1.2	3.1	3.3	-	-	4.7	-	2.7	-	-	1.9	3.6	2.9	<0.5	5.9	<0.5	1.8	<0.5	-	4.3	5.7	4.718	36.4
FC070_0.5-0.6	JBS&G 2014	4.8	0.6	8.2	150	260	3.4	3.9	<0.5	<0.5	0.7	2.5	2.5	-	-	3.7	-	2.2	-	-	1.3	2.5	2.3	<0.5	3.9	<0.5	1.2	<0.5	-	1.3	3.9	3.626	24.3
FC070_6-6.1	JBS&G 2014	3	<0.4	15	<5	12	<0.5	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	0.6	-	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	0.605	-
QC18	JBS&G 2014	<2	<0.4	25	<5	19	<0.5	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	0.6	-	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	0.605	-
QC18-A	JBS&G 2014	<4	<0.4	16	2	12	-	-	<0.1	<0.1	<0.1	<0.1	<0.05	<0.5	-	-	-	-	<0.2	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	0.086	-
FC071_0.5-0.8	JBS&G 2014	10	0.4	8.4	120	300	19	19	<0.5	1.4	2.3	9.4	13	-	-	19	-	9.3	-	-	8.5	11	10	2	15	<0.5	6.8	0.5	-	6.8	16	18.84	112
FC071_2.8-3	JBS&G 2014	5.8	<0.4	<5	19	780	<0.5	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	0.6	-	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	0.605	-
FC071_4.8-5	JBS&G 2014	46	0.6	6.8	95	520	11	11	<0.5	0.8	1.3	5.7	7.3	-	-	11	-	5.4	-	-	4.6	6.7	5.8	1.2	8.2	<0.5	3.9	<0.5	-	3.6	8.6	10.77	63.1
FC071_6-6.1	JBS&G 2014	6.7	<0.4	38	41	160	5.9	5.9	<0.5	0.7	1.9	4.1	4	-	-	5.9	-	2.7	-	-	1.9	4.2	3.7	0.6	7.8	0.7	1.8	<0.5	-	5.4	7.5	5.936	47
FC071_8-8.1	JBS&G 2014	4.3	<0.4	42	18	97	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	-	-	-	-

Table A - Soil
Project Number: 69329
Project Name: Stage 3, GSTC - 960A Bourke Street, Zetland NSW

		Metals & Metalloi					PAH																										
		Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Benzo(a)pyrene TEQ (lower bound)*	Benzo(a)pyrene TEQ (upper bound)*	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(a)pyrene TEQ	Benzo(a)pyrene TEQ (LOR)	Benzo(a)pyrene TEQ calc (Half)	Benzo(a)pyrene TEQ calc (Zero)	Benzo(b+j)fluoranthene	Benzo(b+j+k)fluoranthene	Benzo(b+k)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Naphthalene - PAH	Phenanthrene	Pyrene	Carcinogenic PAHs as B(a)P TEQ	PAHs (Sum of total)
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL		2	0.4	1	1	1			0.1	0.1	0.1	0.1	0.05		0.5	0.5	0.5	0.5	0.2		0.1	0.5	0.1	0.1	0.1	0.1	0.1	0.1	0.5	0.1	0.1		0.05
NSW 2014 General Solid Waste CT1 (No Leaching)		100	20	100		100							0.8																				
NSW 2014 General Solid Waste SCC1 (with leached)		500	100	1,900		1,500							10																				
NSW 2014 Restricted Solid Waste CT2 (No Leaching)		400	80	400		400							3.2																				
NSW 2014 Restricted Solid Waste SCC2 (with leached)		2,000	400	7,600		6,000							23																				
Field ID	**Date**																																
FC072_0.4-0.6	JBS&G 2014	<2	<0.4	<5	<5	<5	<0.5	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	0.6	-	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	0.605	-
FC072_1.5-0.7	JBS&G 2014	<2	<0.4	8.3	<5	6.2	0.9	1.5	<0.5	<0.5	0.6	0.9	0.7	-	-	1.2	-	<0.5	-	-	<0.5	0.8	0.8	<0.5	2.2	<0.5	<0.5	<0.5	-	1.9	1.8	1.181	9.7
FC072_2.9-3.1	JBS&G 2014	<2	<0.4	<5	5.4	14	<0.5	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	0.6	-	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	0.605	-
FC072_6-6.1	JBS&G 2014	5.2	<0.4	33	22	110	0.6	1.2	<0.5	<0.5	<0.5	0.6	0.5	-	-	0.9	-	<0.5	-	-	<0.5	0.5	0.5	<0.5	1	<0.5	<0.5	<0.5	-	0.6	0.9	0.9175	4.6
FC053_0-0.1	JBS&G 2014	4.3	0.4	9.9	63	130	1.5	2	<0.5	<0.5	<0.5	0.9	1.1	-	-	1.7	-	1	-	-	0.9	0.8	1	<0.5	1.7	<0.5	0.8	<0.5	-	0.9	1.8	1.719	10.9
FC053_2-2.1	JBS&G 2014	9	0.5	10	66	200	32	32	0.9	3.2	10	20	22	-	-	32	-	17	-	-	14	12	18	3.7	40	2.2	13	0.8	-	33	38	32.22	247.8
FC054_0.5	JBS&G 2014	4.5	0.8	7	38	110	1.8	2.3	<0.5	<0.5	<0.5	1	1.4	-	-	2	-	1.3	-	-	0.9	0.9	1.2	<0.5	2.2	<0.5	0.8	<0.5	-	1.3	2.3	2.071	13.3
FC054_1-1.1	JBS&G 2014	3.9	<0.4	5.9	23	55	1.6	2.1	<0.5	<0.5	0.6	1.2	1.2	-	-	1.8	-	1.2	-	-	0.7	0.7	1.2	<0.5	2.6	<0.5	0.7	<0.5	-	1.7	2.5	1.849	14.3
FC055_0-0.1	JBS&G 2014	22	2.8	14	200	8,600	7	7	<0.5	0.7	1.4	3.2	4.6	-	-	7	-	3.7	-	-	4.1	3.3	3.3	0.9	4.6	<0.5	3.4	<0.5	-	2.7	4.3	6.934	33.2
QC01	JBS&G 2014	11	1.2	26	370	780	13	13	<0.5	1	2.8	7.7	8.5	-	-	13	-	7.1	-	-	5.6	5.9	8.2	1.6	14	<0.5	5.1	<0.5	-	7.2	14	12.82	88.7
QC01-A	JBS&G 2014	9	1.4	12	100	1,500	-	-	<0.1	0.2	0.4	1.7	2.7	4	-	-	-	-	-	4.1	1.7	-	1.7	0.4	2.5	<0.1	1.7	<0.1	-	1	2.6	3.474	20.7
FC055_1-1.1	JBS&G 2014	5	0.7	7.8	78	470	110	110	<0.5	9.6	24	75	77	-	-	110	-	78	-	-	41	32	77	13	100	1.7	39	1.1	-	19	140	113.6	727.4
FC055_4-4.1	JBS&G 2014	11	1.6	26	2,700	1,100	31	31	<0.5	3	6	19	20	-	-	31	-	19	-	-	15	14	21	4.3	22	<0.5	13	<0.5	-	3.5	30	31.16	189.8
FC056_2-2.1	JBS&G 2014	12	<0.4	<5	110	250	<0.5	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	0.6	-	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	0.7	<0.5	<0.5	<0.5	-	<0.5	0.7	0.605	1.4
FC056_3-3.1	JBS&G 2014	12	0.4	10	32	90	1.5	2	<0.5	<0.5	<0.5	1.1	1.1	-	-	1.7	-	1	-	-	0.7	0.7	1	<0.5	2.1	<0.5	0.6	<0.5	-	0.9	2	1.707	11.2
FC057_0-0.1	JBS&G 2014	<2	1.6	33	230	340	19	19	<0.5	1.1	5.8	12	14	-	-	19	-	9.9	-	-	6.8	7.3	10	1.9	25	0.9	5.9	0.7	-	25	24	19.58	150.3
FC057_2-2.1	JBS&G 2014	<2	1.3	11	280	460	1.6	2.1	<0.5	<0.5	<0.5	1.1	1.2	-	-	1.8	-	0.8	-	-	0.8	0.8	0.9	<0.5	2	<0.5	0.7	<0.5	-	1	1.9	1.807	11.2
FC058_0.5-0.6	JBS&G 2014	<2	1.8	8	110	240	3.7	4.2	<0.5	<0.5	0.6	2.2	2.8	-	-	3.9	-	2.7	-	-	1.6	1.8	1.8	<0.5	3.5	<0.5	1.4	<0.5	-	1.8	3.4	3.894	23
QC02	JBS&G 2014	3.8	1.6	9.1	120	500	2.4	2.9	<0.5	<0.5	<0.5	1.6	1.8	-	-	2.6	-	1.7	-	-	1.1	1.1	1.3	<0.5	2.4	<0.5	0.9	<0.5	-	1.1	2.4	2.604	15.4
QC02-A	JBS&G 2014	8	0.5	10	93	330	-	-	<0.1	0.4	0.7	4.2	4.4	6	-	-	-	-	-	6.5	2.3	-	3.6	0.4	6.8	0.1	2.4	0.1	-	2.3	6.9	5.519	41.1
FC058_5-5.1	JBS&G 2014	<2	3	14	170	550	2.8	3.3	<0.5	<0.5	0.6	2.2	2.2	-	-	3	-	1.3	-	-	1.1	1.4	1.7	<0.5	3.6	<0.5	1	<0.5	-	1.7	3.4	3.068	20.2
FC059_0.5-0.6	JBS&G 2014	<2	1.9	19	120	570	6.6	6.6	<0.5	<0.5	1.6	4.4	4.6	-	-	6.6	-	4	-	-	2.3	2.7	3.9	0.6	8.1	<0.5	2	<0.5	-	5.7	8.1	6.572	48
FC059_1-1.1	JBS&G 2014	30	3.8	46	3,100	2,400	27	27	<0.5	0.7	4.5	23	18	-	-	27	-	16	-	-	11	11	17	2.6	33	<0.5	8.9	<0.5	-	11	36	26.77	192.7
FC060_1-1.1	JBS&G 2014	<2	4.9	30	240	680	0.9	1.5	<0.5	<0.5	<0.5	0.5	0.8	-	-	1.2	-	0.7	-	-	0.6	<0.5	0.5	<0.5	0.9	<0.5	<0.5	<0.5	-	0.5	1	1.231	5.5
FC060_2-2.1	JBS&G 2014	4.6	3.1	47	760	1,600	19	19	<0.5	0.5	1.6	9.8	13	-	-	19	-	12	-	-	9	7.2	7.9	2.2	7	<0.5	6.5	0.6	-	2.1	14	18.92	93.4
FC060_3-3.1	JBS&G 2014	8.2	3.3	17	1,000	700	7.9	7.9	<0.5	<0.5	0.7	3.7	5.4	-	-	7.9	-	5.5	-	-	3.9	3.2	3.2	1	1.9	<0.5	2.9	<0.5	-	0.6	4.8	8.001	36.8
FC061_1-1.1	JBS&G 2014	<2	1.7	13	170	380	8	8	<0.5	0.7	2.1	5.3	5.7	-	-	8	-	2.8	-	-	2.9	3.3	4	0.8	10	0.6	2.5	<0.5	-	5.9	8.9	7.959	55.5
FC061_3-3.1	JBS&G 2014	<2	5.6	26	220	490	4.4	4.9	<0.5	<0.5	1.2	3.6	3.5	-	-	4.7	-	2.1	-	-	1.8	2	2.8	<0.5	6.4	<0.5	1.6	<0.5	-	4.8	6.1	4.726	35.9
BH500_0.5	JBS&G 2022	<2	<0.4	5.5	30	11	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	1.2	0.6	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0	<0.5
BH500_2.0	JBS&G 2022	8.8	<0.4	10	34	36	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	1.2	0.6	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	1.0	<0.5	<0.5	<0.5	<0.5	1.1	0.9	0	3
QA20220217_PG6	JBS&G 2022	8.5	<0.4	11	43	39	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	1.2	<1	<1	<0.5	-	-	<0.5	<0.5	<1	<0.5	1.0	<0.5	<0.5	<0.5	<0.5	<2	1.0	0	2
QC20220217-PG6	JBS&G 2022	9	<0.4	6	31	22	-	-	<0.1	0.1	0.4	0.7	0.72	-	1.0	1.0	1.0	-	0.9	-	0.3	-	0.6	0.1	1.4	0.2	0.2	0.1	<1	1.4	1.3	0.919	8.4
BH500_3.5	JBS&G 2022	11	<0.4	21	18	120	-	-	<0.5	<0.5	<0.5	2.1	2.0	-	3.2	2.9	2.7	1.2	-	-	1.1	2.0	1.9	<0.5	2.7	<0.5	0.9	<0.5	<0.5	1.8	3.1	2.65	18.8
BH500_5.0	JBS&G 2022	4.2	<0.4	19	14	130	-	-	<0.5	<0.5	<0.5	<1	<0.5	-	<2	<2	<2	<0.5	-	-	<0.5	<1	<2	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	0	<2
BH500_6.5	JBS&G 2022	5.6	<0.4	17	29	48	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	1.2	0.6	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0	<0.5
BH500_8.0	JBS&G 2022	7.8	<0.4	13	36	27	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	1.2	0.6	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0	<0.5
BH500_9.5	JBS&G 2022	6.7	<0.4	12	30	35	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	1.2	0.6	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0	<0.5
BH500_11.0	JBS&G 2022	10	<0.4	12	26	28	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	1.2	0.6	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0	<0.5
BH501_1.0	JBS&G 2022	8.0	0.6	19	110	320	-	-	<0.5	2.1	2.6	6.1	5.3	-	7.6	7.6	7.6	3.2	-	-	2.1	5.2	6.6	0.6	16	1.8	2.0	1.4	0.7	17	16	7.637	88
BH501_2.5	JBS&G 2022	24	0.6	35	250	340	-	-	<0.5	<0.5	<0.5	2.5	2.4	-	3.8	3.5	3.3	1.7	-	-	1.2	2.9	2.8	<0.5	4.8	<0.5	1.0	<0.5	<0.5	2.6	5.2	3.25	27.1
BH501_4.0	JBS&G 2022	11	0.6	23	130	320	-	-	<0.5	<0.5	<0.5	1.3	1.3	-	2.2	2.0	1.7	0.8	-	-	0.6	1.5	1.4	<0.5	2.3	<0.5	0.6	<0.5	<0.5	1.5	2.4	1.74	13.7
QA20220217_PG5	JBS&G 2022	8.6	0.4	19	140	260	-	-	<0.5	<0.5	<5	2.6	<5	-	6.7	<5	<5	<2	-	-	1.6	<5	<5	<0.5	6.1	<0.5	1.4	<0.5	<0.5	<10	6.8	0.416	18.5
QC20220217-PG5	JBS&G 2022	6	<0.4	12	70	180	-	-	<0.1	0.2	0.8	2.3	2.4	-	3.5	3.5	3.5	-	3.3	-	1.3	-	1.7	0.4	4.1	0.2	1.2	<0.1	<1	1.8	3.8	3.18	24
BH501_5.5	JBS&G 2022	11	0.6	25	630	500	-	-	<0.5	<0.5	<0.5	1.4	1.3	-	2.2	1.9	1.7	0.7	-	-	0.7	0.9	1.3	<0.5	2.4	<0.5	0.7	<0.5	<0.5	1.3	2.6	1.69	13.3
BH501_7.0	JBS&G 2022	12	0.7	32	77	330	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	1.2	0.6	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	0	1.2
BH501_8.5	JBS&G 2022	15	<0.4	33	67	210	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	1.2	0.6	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0	<0.5
BH501_10.0	JBS&G 2022	14	<0.4	24	45	170	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	1.2	0.6	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0	<0.5
BH501_11.5	JBS&G 2022	8.7	<0.4	13	7.0	21	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	1.2	0.6	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0	<0.5
BH502_1.0	JBS&G 2022	13	0.5	23	200	280	-	-	<0.5	<0.5	<1	1.5	<1	-	<5	<5	<5	<2	-	-	0.7	<2	<5	<0.5	2.0	<0.5	0.6	<0.5	<0.5	<2	2.5	0.217	7.3
BH502_2.0	JBS&G 2022	8.3	<0.4	20	94	170	-	-	<0.5	1.3	<5	5.3	<5	-	<20	<20	<20	<5	-	-	2.0	<5	<20	<0.5	8.2	0.6	2.0	0.7	0.5	<10	10	0.75	30.1
BH502_3.5	JBS&G 2022	6.4	<0.4	20	310	120	-	-	1.9	<0.5	<10	8.3	<10	-	13	<10	<10	<5	-	-	3.0	<10	19	0.7	<20	2.9	2.2	<0.5	1.4	<50	23	1.97	61
BH502_5.0	JBS&G 2022	4.7	<0.4	13	110	310	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	1.2	0.6	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0	<0.5
BH502_6.5	JBS&G 2022	4.9	<0.4	13	110	360	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	1.2	0.6	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0	<0.5
BH502_8.0	JBS&G 2022	5.5	<0.4	18	100	250	-	-	<0.5	<0.5	<0.5	0.7	0.5	-	1.2	0.9	0.6	<0.5	-	-	<0.5	<0.5	1.1	<0.5	1.4	<0.5	<0.5	<0.5	<0.5	1.6	2.0	0.581	7.3
BH502_9.5	JBS&G 2022	4.9	<0.4	19	88	220	-	-	<0.5	<0.5	<2	1.7	<1	-	<10	<10	<10	<1	-	-	0.6	<2	<10	<0.5	1.8	<0.5	<0.5	<0.5	<0.5	<5	3.8	0.176	<10
BH502_11.0	JBS&G 2022	12	<0.4	25	23	25	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	1.2	0.6	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0	<0.5
BH502_12.5	JBS&G 2022	6.0	<0.4	14	50	96	-	-	<0.5	<0.5	<0.5	1.0	0.7	-	1.5	1.2	0.9	0.5	-	-	<0.5	0.6	1.4	<0.5	1.7	<0.5	<0.5	<0.5	<0.5	2.5	2.9	0.924	11.3

Table A - Soil
Project Number: 69329
Project Name: Stage 3, GSTC - 960A Bourke Street, Zetland NSW

						Metals & Metalloi																												
															PAH																				
		Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Benzo(a)pyrene TEQ (lower bound)*	Benzo(a)pyrene TEQ (upper bound)*	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(a)pyrene TEQ	Benzo(a)pyrene TEQ (LOR)	Benzo(a)pyrene TEQ calc (Half)	Benzo(a)pyrene TEQ calc (Zero)	Benzo(b+j)fluoranthene	Benzo(b+j+k)fluoranthene	Benzo(b+k)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Naphthalene - PAH	Phenanthrene	Pyrene	Carcinogenic PAHs as B(a)P TEQ	PAHs (Sum of total)
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL		2	0.4	1	1	1			0.1	0.1	0.1	0.1	0.05		0.5	0.5	0.5	0.5	0.2		0.1	0.5	0.1	0.1	0.1	0.1	0.1	0.1	0.5	0.1	0.1		0.05
NSW 2014 General Solid Waste CT1 (No Leaching)		100	20	100		100							0.8																					
NSW 2014 General Solid Waste SCC1 (with leached)		500	100	1,900		1,500							10																					
NSW 2014 Restricted Solid Waste CT2 (No Leaching)		400	80	400		400							3.2																					
NSW 2014 Restricted Solid Waste SCC2 (with leached)		2,000	400	7,600		6,000							23																					
Field ID	**Date**																																	
BH503_0.5	JBS&G 2022	2.2	<0.4	12	27	25	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	1.2	0.6	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0	<0.5
BH503_2.0	JBS&G 2022	8.0	0.8	18	440	540	-	-	<0.5	<0.5	<2	3.5	<5	-	7.3	<5	<5	<5	-	-	2.7	<5	6.3	0.6	5.2	<0.5	2.5	<0.5	<0.5	<5	6.0	1.29	26.8
BH503_3.5	JBS&G 2022	12	1.3	26	440	1,600	-	-	<0.5	<0.5	<2	2.5	<5	-	6.9	<5	<5	<5	-	-	1.5	<5	4.1	<0.5	3.6	<0.5	1.4	<0.5	<0.5	<5	4.3	0.446	17.4
BH503_5.0	JBS&G 2022	23	3.0	62	2,600	2,300	-	-	<0.5	<0.5	<0.5	1.5	<5	-	6.5	<5	<5	<5	<2	-	-	1.2	<5	3.1	<0.5	2.5	<0.5	1.0	<0.5	<0.5	<1	2.6	0.293	11.9
BH503_6.5	JBS&G 2022	11	1.2	36	970	630	-	-	<0.5	<0.5	<1	2.2	<2	-	3.3	<2	<2	<2	-	-	1.4	<2	4.9	<0.5	4.6	1.0	1.0	<0.5	<0.5	<5	3.8	0.383	18.9
BH503_8.0	JBS&G 2022	20	0.5	27	200	1,400	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	<2	<2	<2	<0.5	-	-	<0.5	<0.5	<2	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<1	0	<2
BH503_9.5	JBS&G 2022	16	0.7	34	880	820	-	-	<0.5	<0.5	<1	0.9	<1	-	1.9	<1	<1	<1	-	-	<0.5	<1	1.9	<0.5	1.8	<0.5	<0.5	<0.5	<0.5	<2	2.1	0.109	6.7
BH503_11.0	JBS&G 2022	9.4	0.7	21	220	720	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	1.2	<1	<1	<0.5	-	-	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	0	<1
BH503_12.5	JBS&G 2022	6.2	<0.4	17	26	58	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	1.2	<1	<1	<0.5	-	-	<0.5	<0.5	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	0.7	0	<1
BH504_0.5	JBS&G 2022	3.8	<0.4	28	71	51	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	1.2	0.6	<0.5	<0.5	-	-	<0.5	0.5	0.6	<0.5	0.9	<0.5	<0.5	<0.5	<0.5	0.5	0.9	0.056	3.4
QA20220217_PG2	JBS&G 2022	3.6	0.4	16	66	220	-	-	<0.5	<0.5	<0.5	0.6	<0.5	-	<2	<2	<2	<0.5	-	-	<0.5	<1	<2	<0.5	1.0	<0.5	<0.5	<0.5	<0.5	<1	1.2	0.06	2.8
QC20220217-PG2	JBS&G 2022	<4	0.5	18	170	210	-	-	<0.1	0.2	0.3	1	1.1	-	1.6	1.6	1.6	-	1	-	0.6	-	0.7	0.2	1.6	0.1	0.5	<0.1	<1	0.9	1.6	1.463	10
BH504_2.0	JBS&G 2022	3.4	<0.4	13	65	230	-	-	0.6	1.0	3.6	12	15	-	22	22	22	9.6	-	-	7.0	14	12	2.2	24	1.5	7.4	<0.5	<0.5	14	24	21.69	147.9
BH504_3.5	JBS&G 2022	4.4	0.6	38	130	260	-	-	<0.5	<0.5	0.6	2.7	3.4	-	4.9	4.7	4.4	2.4	-	-	1.5	3.2	2.9	<0.5	5.2	<0.5	1.6	<0.5	<0.5	3.9	5.5	4.434	32.9
QA20220217_PG3	JBS&G 2022	3.8	0.5	18	130	280	-	-	<0.5	<0.5	<2	3.1	<5	-	<10	<10	<10	<5	-	-	2.8	<10	<10	1.0	5.3	<0.5	2.6	<0.5	<0.5	<5	6.6	1.598	21.4
QC20220217-PG3	JBS&G 2022	<4	<0.4	14	110	170	-	-	0.4	0.7	3.0	7.5	8.1	-	11	11	11	-	6.8	-	4.1	-	2.5	1.3	14	0.6	3.6	0.2	<1	8.6	12	10.576	73
BH504_4.5	JBS&G 2022	6.4	1.2	24	210	470	-	-	<0.5	<0.5	<0.5	1.6	2.0	-	3.1	2.9	2.6	1.4	-	-	0.9	2.2	1.8	<0.5	3.1	<0.5	0.9	<0.5	<0.5	1.8	3.0	2.637	18.7
BH504_6.0	JBS&G 2022	12	1.5	23	360	840	-	-	<0.5	<0.5	0.8	3.2	3.2	-	4.7	4.5	4.2	2.0	-	-	1.3	3.1	3.7	<0.5	6.2	<0.5	1.3	<0.5	<0.5	3.4	6.5	4.21	34.7
BH504_7.5	JBS&G 2022	32	1.3	41	2,900	2,800	-	-	<0.5	<0.5	<0.5	1.5	1.9	-	3.0	2.7	2.5	1.3	-	-	1.1	1.7	<2	<0.5	2.8	<0.5	0.9	<0.5	<0.5	1.0	2.7	2.451	14.9
BH504_9.0	JBS&G 2022	14	0.6	21	420	500	-	-	<0.5	1.8	25	35	25	-	37	37	37	14	-	-	8.8	21	32	3.7	84	7.1	8.9	<0.5	<0.5	78	75	36.998	419.3
BH504_10.5	JBS&G 2022	19	0.6	25	250	560	-	-	<0.5	<0.5	1.1	1.0	0.8	-	1.6	1.4	1.1	0.8	-	-	0.6	0.9	1.8	<0.5	2.4	<0.5	<0.5	<0.5	<0.5	2.2	2.1	1.094	13.7
BH504_12.0	JBS&G 2022	20	0.5	180	570	3,500	-	-	<0.5	<0.5	<0.5	0.5	<0.5	-	1.2	0.7	<0.5	<0.5	-	-	<0.5	0.7	1.1	<0.5	0.9	<0.5	<0.5	<0.5	<0.5	0.5	1.0	0.131	4.7
BH505_1.5	JBS&G 2022	7.6	0.8	16	100	270	-	-	<0.5	<0.5	1.5	3.0	2.1	-	3.5	3.2	2.9	2.1	-	-	1.8	2.6	4.9	<0.5	6.0	<0.5	<0.5	<0.5	<0.5	5.2	6.7	2.937	35.9
BH505_3.0	JBS&G 2022	11	1.1	22	160	430	-	-	<0.5	<0.5	1.6	2.3	1.9	-	3.0	2.8	2.5	1.2	-	-	1.4	1.8	3.7	<0.5	3.8	<0.5	<0.5	<0.5	<0.5	3.5	4.0	2.481	25.2
QA20220217_PG4	JBS&G 2022	9.5	0.9	26	150	410	-	-	<0.5	<0.5	<1	1.6	<2	-	<5	<5	<5	<2	-	-	1.2	<5	<5	<0.5	3.4	<0.5	1.0	<0.5	<0.5	<5	3.8	0.272	11
QC20220217-PG4	JBS&G 2022	6	0.8	15	100	290	-	-	0.3	0.4	1.5	3.8	3.9	-	5.4	5.4	5.4	-	2.8	-	1.9	-	1.0	0.6	6.3	0.6	1.7	0.4	<1	4.1	6.3	5.079	36
BH505_4.5	JBS&G 2022	10	36	24	130	280	-	-	<0.5	<0.5	0.9	2.1	1.8	-	3.0	3.0	3.0	1.2	-	-	1.2	1.9	3.5	0.5	3.7	<0.5	1.0	<0.5	<0.5	2.4	3.6	2.967	23.8
BH505_6.0	JBS&G 2022	7.4	1.0	27	190	2,300	-	-	<0.5	<0.5	0.6	1.3	1.1	-	2.1	1.8	1.5	1.2	-	-	0.8	1.3	2.2	<0.5	2.2	<0.5	<0.5	<0.5	<0.5	1.7	2.1	1.51	14.5
BH505_7.5	JBS&G 2022	7.4	1.2	36	140	390	-	-	<0.5	<0.5	<0.5	0.9	0.7	-	1.5	1.2	1.0	0.7	-	-	0.7	0.8	1.6	<0.5	2.0	<0.5	<0.5	<0.5	<0.5	0.9	1.8	0.963	10.1
BH505_9.0	JBS&G 2022	8.1	1.2	31	130	470	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	1.2	0.6	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0	<0.5
BH505_10.5	JBS&G 2022	9.4	1.0	31	130	400	-	-	<0.5	<0.5	0.5	1.8	1.2	-	2.3	2.0	1.8	1.1	-	-	0.7	2.1	2.2	<0.5	3.4	<0.5	0.7	<0.5	<0.5	2.0	3.9	1.799	19.6
BH505_11.5	JBS&G 2022	8.5	1.3	22	140	360	-	-	0.7	<0.5	1.8	2.5	2.3	-	3.6	3.3	3.1	1.3	-	-	0.9	2.6	3.0	<0.5	6.9	0.8	0.9	<0.5	<0.5	8.3	7.0	3.069	39
BH506_1.0	JBS&G 2022	6.6	0.5	27	110	240	-	-	<0.5	<0.5	0.6	1.3	1.3	-	2.3	2.0	1.8	0.9	-	-	0.6	1.6	1.6	<0.5	3.1	<0.5	0.6	<0.5	<0.5	2.5	3.1	1.762	17.2
BH506_2.5	JBS&G 2022	7.6	2.3	81	4,200	640	-	-	<0.5	<0.5	<0.5	0.9	0.9	-	1.7	1.4	1.2	0.6	-	-	<0.5	1.1	1.0	<0.5	1.8	<0.5	<0.5	<0.5	<0.5	1.1	1.9	1.17	9.3
BH506_4.0	JBS&G 2022	6.1	1.1	91	150	340	-	-	<0.5	<0.5	<0.5	1.1	0.9	-	1.7	1.5	1.2	0.6	-	-	<0.5	1.1	1.2	<0.5	2.3	<0.5	<0.5	<0.5	<0.5	1.8	2.3	1.192	11.3
BH506_5.0	JBS&G 2022	5.0	0.9	25	100	330	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	1.2	0.6	<0.5	<0.5	-	-	<0.5	<0.5	0.7	<0.5	0.7	<0.5	<0.5	<0.5	<0.5	<0.5	0.8	0.007	2.2
BH506_6.5	JBS&G 2022	5.2	0.8	22	170	240	-	-	<0.5	<0.5	0.6	0.8	0.6	-	1.4	1.1	0.8	0.7	-	-	0.7	0.7	1.7	<0.5	1.9	<0.5	<0.5	<0.5	<0.5	1.3	2.1	0.844	11.1
BH506_8.0	JBS&G 2022	10	13	9.4	48	180	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	1.2	0.6	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0	<0.5
BH506_9.0	JBS&G 2022	12	15	18	450	780	-	-	<0.5	<0.5	<0.5	0.6	1.0	-	1.8	1.5	1.3	0.5	-	-	0.6	1.0	0.9	<0.5	1.5	<0.5	0.6	<0.5	<0.5	0.7	1.5	1.285	8.9
BH507_0.5	JBS&G 2022	<2	<0.4	27	39	<5	-	-	<5	<5	<5	<5	<5	-	12	6.1	<5	<5	-	-	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	0	<5
BH507_1.5	JBS&G 2022	6.3	1.2	26	68	210	-	-	<0.5	<0.5	<0.5	0.6	<0.5	-	1.3	0.7	<0.5	0.7	-	-	0.6	0.7	1.3	<0.5	1.0	<0.5	<0.5	<0.5	<0.5	0.6	1.2	0.219	6.7
QA20220217_PG1	JBS&G 2022	4.6	0.7	25	90	240	-	-	<0.5	<0.5	<1	1.1	<2	-	3.1	<2	<2	<2	-	-	0.7	<2	<2	<0.5	2.1	<0.5	0.7	<0.5	<0.5	<2	2.2	0.187	6.8
QC20220217-PG1	JBS&G 2022	4	0.6	14	81	210	-	-	<0.1	0.3	0.5	1.6	1.7	-	2.5	2.5	2.5	-	2.3	-	0.9	-	1.2	0.3	2.6	0.2	0.8	<0.1	<1	1.5	2.6	2.261	17
BH507_3.0	JBS&G 2022	4.1	0.5	13	59	140	-	-	<0.5	<0.5	<0.5	0.8	0.5	-	1.3	1.0	0.7	0.6	-	-	0.6	0.8	1.2	<0.5	1.4	<0.5	<0.5	<0.5	<0.5	0.8	1.4	0.738	8.1
BH507_4.5	JBS&G 2022	3.4	0.5	16	64	330	-	-	<0.5	<0.5	2.4	2.4	2.2	-	3.4	3.1	2.8	1.1	-	-	1.5	2.2	4.1	<0.5	6.3	0.6	<0.5	<0.5	<0.5	6.7	5.2	2.826	34.7
BH507_6.0	JBS&G 2022	4.7	0.6	22	100	250	-	-	<0.5	<0.5	<0.5	0.6	0.6	-	1.4	1.1	0.8	<0.5	-	-	0.6	0.8	1.1	<0.5	1.2	<0.5	<0.5	<0.5	<0.5	0.9	1.2	0.757	7
BH507_7.5	JBS&G 2022	4.1	<0.4	12	69	290	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	1.2	0.6	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0	<0.5
BH507_9.0	JBS&G 2022	3.8	0.4	10	33	200	-	-	<0.5	<0.5	0.5	1.3	<1	-	1.9	1.0	<1	<1	-	-	<0.5	<1	2.1	<0.5	2.1	<0.5	<0.5	<0.5	<0.5	<2	2.4	0.151	8.4
BH507_10.5	JBS&G 2022	3.8	<0.4	14	40	210	-	-	<0.5	<0.5	<0.5	0.7	<0.5	-	1.3	<1	<1	<0.5	-	-	<0.5	<1	1.2	<0.5	1.2	<0.5	<0.5	<0.5	<0.5	<1	1.4	0.082	4.5
BH507_12.0	JBS&G 2022	6.0	0.5	16	68	280	-	-	<0.5	<0.5	<1	1.0	<1	-	1.9	<1	<1	<1	-	-	<0.5	<1	1.7	<0.5	1.6	<0.5	<0.5	<0.5	<0.5	<2	2.0	0.117	6.3
BH508_0.5	JBS&G 2022	2.7	<0.4	7.2	84	26	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	1.2	0.6	<0.5	<0.5	-	-	<0.5	<0.5	0.7	<0.5	1.0	<0.5	<0.5	<0.5	<0.5	1.3	1.0	0.007	4
BH508_2.0	JBS&G 2022	5.3	<0.4	6.9	83	110	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	1.2	0.7	<0.5	<0.5	-	-	<0.5	0.7	0.7	<0.5	0.7	<0.5	<0.5	<0.5	<0.5	<0.5	0.9	0.077	3
BH508_3.5	JBS&G 2022	5.4	<0.4	13	110	180	-	-	<0.5	<0.5	0.7	2.1	2.2	-	3.5	3.2	3.0	1.8	-	-	1.4	2.4	3.6	<0.5	4.1	<0.5	1.0	<0.5	<0.5	1.6	4.7	2.98	25.6
BH508_4.5	JBS&G 2022	6.6	<0.4	14	110	200	-	-	<0.5	<0.5	0.7	1.7	1.6	-	2.8	2.5	2.3	1.3	-	-	1.3	2.5	3.5	<0.5	3.4	<0.5	1.0	<0.5	<0.5	1.4	3.9	2.298	22.3
BH508_6.0	JBS&G 2022	<2	<0.4	<5	<5	9.8	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	1.2	0.6	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0	<0.5
BH508_7.0	JBS&G 2022	<2	<0.4	<5	9.4	60	-	-	<0.5	<0.5	<0.5	0.9	1.0	-	1.8	1.5	1.3	0.6	-	-	0.6	0.9	1.2	<0.5	1.5	<0.5	<0.5	<0.5	<0.5	0.7	1.7	1.258	9.1
BH509_0.5	JBS&G 2022	<2	<0.4	<5	69	11	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	1.2	0.6	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0	<0.5

Table A - Soil
Project Number: 69329
Project Name: Stage 3, GSTC - 960A Bourke Street, Zetland NSW

						Metals & Metalloi																												
																																			PAH
		Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Benzo(a)pyrene TEQ (lower bound)*	Benzo(a)pyrene TEQ (upper bound)*	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(a)pyrene TEQ	Benzo(a)pyrene TEQ (LOR)	Benzo(a)pyrene TEQ calc (Half)	Benzo(a)pyrene TEQ calc (Zero)	Benzo(b+j)fluoranthene	Benzo(b+j+k)fluoranthene	Benzo(b+k)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Naphthalene - PAH	Phenanthrene	Pyrene	Carcinogenic PAHs as B(a)P TEQ	PAHs (Sum of total)
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL		2	0.4	1	1	1			0.1	0.1	0.1	0.1	0.05		0.5	0.5	0.5	0.5	0.2		0.1	0.5	0.1	0.1	0.1	0.1	0.1	0.1	0.5	0.1	0.1		0.05
NSW 2014 General Solid Waste CT1 (No Leaching)		100	20	100		100							0.8																					
NSW 2014 General Solid Waste SCC1 (with leached)		500	100	1,900		1,500							10																					
NSW 2014 Restricted Solid Waste CT2 (No Leaching)		400	80	400		400							3.2																					
NSW 2014 Restricted Solid Waste SCC2 (with leached)		2,000	400	7,600		6,000							23																					
Field ID	**Date**																																	
BH509_2.0	JBS&G 2022	7.3	1.3	14	110	370	-	-	<0.5	<0.5	1.1	1.5	0.9	-	1.9	1.6	1.3	0.8	-	-	0.7	1.8	2.6	<0.5	2.8	<0.5	<0.5	<0.5	<0.5	2.4	3.3	1.343	17.9
BH509_2.5	JBS&G 2022	6.4	3.4	15	110	280	-	-	0.5	<0.5	1.0	1.2	0.7	-	1.7	1.4	1.2	0.9	-	-	0.8	1.6	2.4	<0.5	2.5	0.5	0.7	<0.5	<0.5	2.5	3.1	1.172	18.4
QA20220218PG3	JBS&G 2022	6.8	3.3	16	120	340	-	-	<0.5	<0.5	0.8	1.5	1.5	-	2.5	2.3	2.0	1.3	-	-	0.7	1.5	2.1	<0.5	3.4	<0.5	0.8	<0.5	<0.5	3.2	3.2	2.038	20
QC20220218-PG3	JBS&G 2022	7	2	14	110	250	-	-	0.3	0.2	0.8	2.0	2.2	-	2.9	2.8	2.8	-	2.8	-	1.2	-	1.5	<0.1	3.4	0.3	1	0.1	<1	2.5	3.4	2.527	22
BH509_3.5	JBS&G 2022	14	1.0	33	100	1,200	-	-	1.2	<0.5	2.4	3.2	3.9	-	6.2	6.2	6.2	2.2	-	-	2.1	3.9	5.8	1.1	7.8	0.9	1.6	0.6	<0.5	3.7	7.9	6.169	48.3
BH509_5.0	JBS&G 2022	14	0.9	21	100	320	-	-	10	<5	18	14	9.1	-	19	16	13	7.1	-	-	7.5	17	26	<5	41	<10	<10	<5	<0.5	25	43	13.245	217.7
BH509_6.5	JBS&G 2022	11	12	44	280	570	-	-	<0.5	<0.5	0.6	1.2	1.5	-	2.4	2.1	1.9	0.8	-	-	0.9	1.0	1.7	<0.5	3.0	<0.5	0.7	<0.5	<0.5	1.7	3.0	1.896	16.1
BH509_7.5	JBS&G 2022	6.7	18	18	350	510	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	1.2	0.6	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0	<0.5
BH510_1.0	JBS&G 2022	18	0.5	18	81	160	-	-	<0.5	<0.5	<0.5	1.6	1.8	-	2.9	2.7	2.4	1.4	-	-	1.2	1.7	2.2	<0.5	2.9	<0.5	1.1	<0.5	<0.5	1.7	3.1	2.414	18.7
BH510_2.5	JBS&G 2022	14	1.2	25	160	400	-	-	<0.5	<0.5	0.7	1.4	0.7	-	1.6	1.4	1.1	0.6	-	-	0.7	1.6	2.7	<0.5	2.5	<0.5	<0.5	<0.5	<0.5	1.5	2.7	1.094	15.1
BH510_4.0	JBS&G 2022	9.0	<0.4	21	36	110	-	-	<0.5	<0.5	1.3	1.9	1.3	-	2.6	2.3	2.1	1.3	-	-	1.1	2.9	4.6	<0.5	5.1	<0.5	0.9	<0.5	<0.5	3.3	5.4	2.057	29.1
BH510_5.5	JBS&G 2022	15	1.2	57	730	470	-	-	<0.5	0.5	0.8	2.0	2.0	-	3.2	2.9	2.7	1.5	-	-	1.0	2.3	2.8	<0.5	4.3	<0.5	0.7	<0.5	<0.5	3.5	4.5	2.688	25.9
BH510_7.0	JBS&G 2022	11	0.8	35	360	380	-	-	<0.5	<0.5	0.7	2.3	2.3	-	3.6	3.4	3.1	1.8	-	-	1.2	2.6	3.1	<0.5	5.0	<0.5	1.1	<0.5	<0.5	3.4	5.8	3.123	29.3
BH510_8.0	JBS&G 2022	6.8	0.5	24	210	300	-	-	<0.5	<0.5	0.6	1.2	1.1	-	2.0	1.8	1.5	1.0	-	-	0.6	1.3	1.7	<0.5	2.7	<0.5	0.6	<0.5	<0.5	2.4	2.8	1.533	16
BH511_0.5	JBS&G 2022	<2	<0.4	5.6	44	17	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	1.2	0.6	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0	<0.5
BH511_2.0	JBS&G 2022	7.7	0.7	13	29	170	-	-	<0.5	<0.5	<0.5	0.6	0.7	-	1.4	1.1	0.9	0.5	-	-	0.5	0.5	0.7	<0.5	0.9	<0.5	<0.5	<0.5	<0.5	<0.5	1.0	0.872	5.4
BH511_3.5	JBS&G 2022	10.0	1.0	30	110	430	-	-	<0.5	<0.5	<0.5	0.8	0.9	-	1.7	1.4	1.1	<0.5	-	-	0.5	0.6	1.2	<0.5	1.3	<0.5	<0.5	<0.5	<0.5	0.8	1.5	1.057	7.6
BH511_5.0	JBS&G 2022	6.8	0.4	28	61	270	-	-	<0.5	<0.5	<0.5	0.7	0.7	-	1.4	1.1	0.9	<0.5	-	-	0.5	0.6	1.0	<0.5	1.3	<0.5	<0.5	<0.5	<0.5	1.0	1.4	0.845	7.2
BH511_6.5	JBS&G 2022	7.2	<0.4	19	170	560	-	-	<0.5	<0.5	<0.5	1.0	1.2	-	2.0	1.8	1.5	0.7	-	-	0.7	0.8	0.8	<0.5	1.3	<0.5	0.5	<0.5	<0.5	<0.5	1.7	1.515	8.7
BH511_8.0	JBS&G 2022	5.1	<0.4	11	96	360	-	-	<0.5	<0.5	<0.5	2.6	2.6	-	3.8	3.6	3.3	1.1	-	-	<0.5	2.1	2.4	<0.5	3.3	<0.5	1.2	<0.5	<0.5	0.6	4.0	3.324	19.9
BH512_0.5	JBS&G 2022	<2	<0.4	6.5	28	13	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	1.2	0.6	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0	<0.5
BH512_2.0	JBS&G 2022	9.0	<0.4	13	46	180	-	-	<0.5	<0.5	<0.5	0.7	0.8	-	1.5	1.2	0.9	<0.5	-	-	0.5	0.6	0.8	<0.5	1.1	<0.5	<0.5	<0.5	<0.5	0.8	1.1	0.943	6.4
QA20220218PG1	JBS&G 2022	10	<0.4	12	53	110	-	-	<0.5	<0.5	<0.5	0.6	0.7	-	1.4	1.1	0.8	<0.5	-	-	<0.5	0.6	0.9	<0.5	0.9	<0.5	<0.5	<0.5	<0.5	0.5	1.0	0.829	5.2
QC20220218-PG1	JBS&G 2022	<4	<0.4	8	36	76	-	-	<0.1	0.2	0.3	0.9	1.0	-	1.5	1.5	1.5	-	1	-	0.6	-	0.7	0.1	1.7	0.1	0.5	<0.1	<1	1	1.6	1.253	10
BH512_2.5	JBS&G 2022	47	<0.4	26	180	720	-	-	<0.5	<0.5	<0.5	0.5	0.7	-	1.4	1.1	0.8	<0.5	-	-	<0.5	0.6	0.8	<0.5	1.0	<0.5	<0.5	<0.5	<0.5	0.5	0.9	0.818	5
BH512_3.5	JBS&G 2022	570	0.9	23	1,100	5,100	-	-	16	110	180	220	150	-	230	230	230	100	-	-	67	120	180	25	490	83	67	88	30	500	500	228.17	2,896
BH512_4.5	JBS&G 2022	77	0.6	16	170	1,100	-	-	20	95	150	240	200	-	290	290	290	130	-	-	84	150	210	31	600	110	86	160	62	710	530	294.54	3,506
BH512_5.5	JBS&G 2022	38	<0.4	16	95	360	-	-	7.0	34	76	89	66	-	99	99	99	43	-	-	29	59	86	9.9	200	29	30	22	22	280	200	99.15	1,259.9

Table A - Soil
Project Number: 69329
Project Name: Stage 3, GSTC - 960A Bourke Street, Zetland NSW

							Metals & Metalloi																											
							Organochlorine Pesticides																													
		Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	4,4-DDE	a-BHC	b-BHC	d-BHC	g-BHC (Lindane)	Aldrin	Dieldrin	Aldrin + Dieldrin	Chlordane	Chlordane (cis)	Chlordane (trans)	DDT	DDE	DDD	DDT+DDE+DDD	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	gamma-Chlordane	Heptachlor	Heptachlor Epoxide	Hexachlorobenzene	Methoxychlor	Toxaphene
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL		2	0.4	1	1	1	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.1	0.1	0.05		0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05		0.05	0.05	0.05	0.05	0.5
NSW 2014 General Solid Waste CT1 (No Leaching)		100	20	100		100																												
NSW 2014 General Solid Waste SCC1 (with leached)		500	100	1,900		1,500																												
NSW 2014 Restricted Solid Waste CT2 (No Leaching)		400	80	400		400																												
NSW 2014 Restricted Solid Waste SCC2 (with leached)		2,000	400	7,600		6,000																												
Field ID	**Date**																																	
I3_3.9-4	Coffey 2011	4	0.4	9.5	59	140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I3_5.4-5.5	Coffey 2011	4	<0.3	13	33	430	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP3_0.5-0.6	Coffey 2011	5	0.5	8.2	90	130	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP3_2-2.1	Coffey 2011	25	<0.3	11	55	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP3_5.5-5.6	Coffey 2011	3	<0.3	3.5	15	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14_2-2.1	Coffey 2011	<3	<0.3	8.5	9.2	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14_5-5.1	Coffey 2011	5	<0.3	11	16	68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14_8.2-8.3	Coffey 2011	<3	<0.3	5.5	2.6	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R31_0.5-0.6	Coffey 2011	6	0.9	13	150	430	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R32_0.5-0.6	Coffey 2011	4	0.5	8	120	1,100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R32_2-2.1	Coffey 2011	8	0.8	27	190	210	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R33_1.5-1.6	Coffey 2011	9	0.5	43	300	310	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH7_0.2-0.4	HLA 2007	1	0.2	22	92	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH7_8.8-9	HLA 2007	7	0.2	18	86	320	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH8_0.1-0.2	HLA 2007	<1	<0.1	19	81	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH8_6-6.5	HLA 2007	3	0.1	7	11	79	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH10_4.3-4.5	HLA 2007	4	0.2	15	50	120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH10_7-7.5	HLA 2007	10	0.5	12	77	470	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH13_0.3-0.4	HLA 2007	8	0.4	8	85	220	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	-	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	-	<0.2	<1
BH13_7.6-8	HLA 2007	2	<0.1	5	13	79	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC062_0.1-0.2	JBS&G 2014	7.8	1.3	18	210	470	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	-	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
QC05	JBS&G 2014	4.1	1.3	27	210	470	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	-	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
QC05-A	JBS&G 2014	4	0.6	16	140	260	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	-	<0.1	-	-	<0.1	<0.1	0.15	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	-
FC062_3.8-4	JBS&G 2014	2.6	0.4	7	59	120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC063_1.6-1.8	JBS&G 2014	9.7	1.2	20	190	400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC063_3.8-4	JBS&G 2014	3.5	0.6	10	89	190	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC064_0.1-0.2	JBS&G 2014	41	5.3	26	160	350	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	-	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
FC064_0.5-0.7	JBS&G 2014	<2	0.4	<5	50	41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC064_3.1-3.3	JBS&G 2014	33	23	120	830	5,900	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC064_4.7-4.9	JBS&G 2014	11	1	13	750	75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC065_0.1-0.2	JBS&G 2014	<2	0.7	25	65	140	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	-	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
FC065_0.5-0.7	JBS&G 2014	4.5	3.5	11	67,000	1,800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC065_1-1.2	JBS&G 2014	<2	1.3	18	77	460	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	-	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
FC065_2.3-2.5	JBS&G 2014	3	<0.4	6.6	130	230	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	-	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
FC065_3-3.2	JBS&G 2014	15	<0.4	<5	77	140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC066_0.5-0.7	JBS&G 2014	3.9	0.8	11	190	310	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC066_1.5-1.7	JBS&G 2014	3.8	3.6	12	170	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC066_2.5-2.7	JBS&G 2014	6.6	1.3	11	140	180	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	-	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
FC066_3.1-3.3	JBS&G 2014	5.8	<0.4	<5	280	10	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	-	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
FC067_0.5-0.6	JBS&G 2014	4.5	0.6	6.4	250	320	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC067_0.9-1.1	JBS&G 2014	<2	<0.4	<5	45	43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC067_3.1-3.3	JBS&G 2014	<2	0.4	<5	72	180	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	-	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
FC068_0.1-0.2	JBS&G 2014	4.3	2.2	20	450	350	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC068_1.1-1.3	JBS&G 2014	5.2	3.4	13	190	430	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC068_4.8-5	JBS&G 2014	2.6	0.8	5.8	82	340	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	-	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
FC069_6-6.1	JBS&G 2014	7.1	<0.4	39	24	99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC069_8-8.1	JBS&G 2014	<2	<0.4	130	22	51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC070_0.1-0.2	JBS&G 2014	5.2	0.7	7.8	140	350	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	-	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
FC070_0.5-0.6	JBS&G 2014	4.8	0.6	8.2	150	260	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC070_6-6.1	JBS&G 2014	3	<0.4	15	<5	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC18	JBS&G 2014	<2	<0.4	25	<5	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC18-A	JBS&G 2014	<4	<0.4	16	2	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC071_0.5-0.8	JBS&G 2014	10	0.4	8.4	120	300	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	-	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
FC071_2.8-3	JBS&G 2014	5.8	<0.4	<5	19	780	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	-	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
FC071_4.8-5	JBS&G 2014	46	0.6	6.8	95	520	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC071_6-6.1	JBS&G 2014	6.7	<0.4	38	41	160	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC071_8-8.1	JBS&G 2014	4.3	<0.4	42	18	97	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table A - Soil
Project Number: 69329
Project Name: Stage 3, GSTC - 960A Bourke Street, Zetland NSW

						Metals & Metalloi																												
							Organochlorine Pesticides																												
		Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	4,4-DDE	a-BHC	b-BHC	d-BHC	g-BHC (Lindane)	Aldrin	Dieldrin	Aldrin + Dieldrin	Chlordane	Chlordane (cis)	Chlordane (trans)	DDT	DDE	DDD	DDT+DDE+DDD	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	gamma-Chlordane	Heptachlor	Heptachlor Epoxide	Hexachlorobenzene	Methoxychlor	Toxaphene
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL		2	0.4	1	1	1	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.1	0.1	0.05		0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05		0.05	0.05	0.05	0.05	0.5
NSW 2014 General Solid Waste CT1 (No Leaching)		100	20	100		100																												
NSW 2014 General Solid Waste SCC1 (with leached)		500	100	1,900		1,500																												
NSW 2014 Restricted Solid Waste CT2 (No Leaching)		400	80	400		400																												
NSW 2014 Restricted Solid Waste SCC2 (with leached)		2,000	400	7,600		6,000																												
Field ID	**Date**																																	
FC072_0.4-0.6	JBS&G 2014	<2	<0.4	<5	<5	<5	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	-	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
FC072_1.5-0.7	JBS&G 2014	<2	<0.4	8.3	<5	6.2	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	-	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
FC072_2.9-3.1	JBS&G 2014	<2	<0.4	<5	5.4	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC072_6-6.1	JBS&G 2014	5.2	<0.4	33	22	110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC053_0-0.1	JBS&G 2014	4.3	0.4	9.9	63	130	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	-	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
FC053_2-2.1	JBS&G 2014	9	0.5	10	66	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC054_0.5	JBS&G 2014	4.5	0.8	7	38	110	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	-	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
FC054_1-1.1	JBS&G 2014	3.9	<0.4	5.9	23	55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC055_0-0.1	JBS&G 2014	22	2.8	14	200	8,600	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	-	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
QC01	JBS&G 2014	11	1.2	26	370	780	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	-	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
QC01-A	JBS&G 2014	9	1.4	12	100	1,500	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	-	<0.1	-	-	<0.1	-	0.15	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	-
FC055_1-1.1	JBS&G 2014	5	0.7	7.8	78	470	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC055_4-4.1	JBS&G 2014	11	1.6	26	2,700	1,100	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	-	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
FC056_2-2.1	JBS&G 2014	12	<0.4	<5	110	250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC056_3-3.1	JBS&G 2014	12	0.4	10	32	90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC057_0-0.1	JBS&G 2014	<2	1.6	33	230	340	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	-	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
FC057_2-2.1	JBS&G 2014	<2	1.3	11	280	460	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC058_0.5-0.6	JBS&G 2014	<2	1.8	8	110	240	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	-	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
QC02	JBS&G 2014	3.8	1.6	9.1	120	500	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	-	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
QC02-A	JBS&G 2014	8	0.5	10	93	330	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	-	<0.1	-	-	<0.1	-	0.15	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	-
FC058_5-5.1	JBS&G 2014	<2	3	14	170	550	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC059_0.5-0.6	JBS&G 2014	<2	1.9	19	120	570	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC059_1-1.1	JBS&G 2014	30	3.8	46	3,100	2,400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC060_1-1.1	JBS&G 2014	<2	4.9	30	240	680	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC060_2-2.1	JBS&G 2014	4.6	3.1	47	760	1,600	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	-	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
FC060_3-3.1	JBS&G 2014	8.2	3.3	17	1,000	700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC061_1-1.1	JBS&G 2014	<2	1.7	13	170	380	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.1	-	-	-	<0.05	<0.05	0.075	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.2	<1
FC061_3-3.1	JBS&G 2014	<2	5.6	26	220	490	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH500_0.5	JBS&G 2022	<2	<0.4	5.5	30	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH500_2.0	JBS&G 2022	8.8	<0.4	10	34	36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA20220217_PG6	JBS&G 2022	8.5	<0.4	11	43	39	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20220217-PG6	JBS&G 2022	9	<0.4	6	31	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH500_3.5	JBS&G 2022	11	<0.4	21	18	120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH500_5.0	JBS&G 2022	4.2	<0.4	19	14	130	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH500_6.5	JBS&G 2022	5.6	<0.4	17	29	48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH500_8.0	JBS&G 2022	7.8	<0.4	13	36	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH500_9.5	JBS&G 2022	6.7	<0.4	12	30	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH500_11.0	JBS&G 2022	10	<0.4	12	26	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH501_1.0	JBS&G 2022	8.0	0.6	19	110	320	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH501_2.5	JBS&G 2022	24	0.6	35	250	340	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH501_4.0	JBS&G 2022	11	0.6	23	130	320	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA20220217_PG5	JBS&G 2022	8.6	0.4	19	140	260	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20220217-PG5	JBS&G 2022	6	<0.4	12	70	180	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH501_5.5	JBS&G 2022	11	0.6	25	630	500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH501_7.0	JBS&G 2022	12	0.7	32	77	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH501_8.5	JBS&G 2022	15	<0.4	33	67	210	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH501_10.0	JBS&G 2022	14	<0.4	24	45	170	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH501_11.5	JBS&G 2022	8.7	<0.4	13	7.0	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH502_1.0	JBS&G 2022	13	0.5	23	200	280	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH502_2.0	JBS&G 2022	8.3	<0.4	20	94	170	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH502_3.5	JBS&G 2022	6.4	<0.4	20	310	120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH502_5.0	JBS&G 2022	4.7	<0.4	13	110	310	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH502_6.5	JBS&G 2022	4.9	<0.4	13	110	360	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH502_8.0	JBS&G 2022	5.5	<0.4	18	100	250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH502_9.5	JBS&G 2022	4.9	<0.4	19	88	220	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH502_11.0	JBS&G 2022	12	<0.4	25	23	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH502_12.5	JBS&G 2022	6.0	<0.4	14	50	96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table A - Soil
Project Number: 69329
Project Name: Stage 3, GSTC - 960A Bourke Street, Zetland NSW

						Metals & Metalloi					Organochlorine Pesticides																								
		Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	4,4-DDE	a-BHC	b-BHC	d-BHC	g-BHC (Lindane)	Aldrin	Dieldrin	Aldrin + Dieldrin	Chlordane	Chlordane (cis)	Chlordane (trans)	DDT	DDE	DDD	DDT+DDE+DDD	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	gamma-Chlordane	Heptachlor	Heptachlor Epoxide	Hexachlorobenzene	Methoxychlor	Toxaphene
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL		2	0.4	1	1	1	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.1	0.1	0.05		0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05		0.05	0.05	0.05	0.05	0.5
NSW 2014 General Solid Waste CT1 (No Leaching)		100	20	100		100																											
NSW 2014 General Solid Waste SCC1 (with leached)		500	100	1,900		1,500																											
NSW 2014 Restricted Solid Waste CT2 (No Leaching)		400	80	400		400																											
NSW 2014 Restricted Solid Waste SCC2 (with leached)		2,000	400	7,600		6,000																											
Field ID	**Date**																																
BH503_0.5	JBS&G 2022	2.2	<0.4	12	27	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH503_2.0	JBS&G 2022	8.0	0.8	18	440	540	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH503_3.5	JBS&G 2022	12	1.3	26	440	1,600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH503_5.0	JBS&G 2022	23	3.0	62	2,600	2,300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH503_6.5	JBS&G 2022	11	1.2	36	970	630	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH503_8.0	JBS&G 2022	20	0.5	27	200	1,400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH503_9.5	JBS&G 2022	16	0.7	34	880	820	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH503_11.0	JBS&G 2022	9.4	0.7	21	220	720	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH503_12.5	JBS&G 2022	6.2	<0.4	17	26	58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH504_0.5	JBS&G 2022	3.8	<0.4	28	71	51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA20220217_PG2	JBS&G 2022	3.6	0.4	16	66	220	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20220217-PG2	JBS&G 2022	<4	0.5	18	170	210	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH504_2.0	JBS&G 2022	3.4	<0.4	13	65	230	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH504_3.5	JBS&G 2022	4.4	0.6	38	130	260	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA20220217_PG3	JBS&G 2022	3.8	0.5	18	130	280	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20220217-PG3	JBS&G 2022	<4	<0.4	14	110	170	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH504_4.5	JBS&G 2022	6.4	1.2	24	210	470	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH504_6.0	JBS&G 2022	12	1.5	23	360	840	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH504_7.5	JBS&G 2022	32	1.3	41	2,900	2,800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH504_9.0	JBS&G 2022	14	0.6	21	420	500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH504_10.5	JBS&G 2022	19	0.6	25	250	560	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH504_12.0	JBS&G 2022	20	0.5	180	570	3,500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH505_1.5	JBS&G 2022	7.6	0.8	16	100	270	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH505_3.0	JBS&G 2022	11	1.1	22	160	430	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA20220217_PG4	JBS&G 2022	9.5	0.9	26	150	410	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20220217-PG4	JBS&G 2022	6	0.8	15	100	290	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH505_4.5	JBS&G 2022	10	36	24	130	280	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH505_6.0	JBS&G 2022	7.4	1.0	27	190	2,300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH505_7.5	JBS&G 2022	7.4	1.2	36	140	390	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH505_9.0	JBS&G 2022	8.1	1.2	31	130	470	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH505_10.5	JBS&G 2022	9.4	1.0	31	130	400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH505_11.5	JBS&G 2022	8.5	1.3	22	140	360	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH506_1.0	JBS&G 2022	6.6	0.5	27	110	240	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH506_2.5	JBS&G 2022	7.6	2.3	81	4,200	640	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH506_4.0	JBS&G 2022	6.1	1.1	91	150	340	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH506_5.0	JBS&G 2022	5.0	0.9	25	100	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH506_6.5	JBS&G 2022	5.2	0.8	22	170	240	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH506_8.0	JBS&G 2022	10	13	9.4	48	180	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH506_9.0	JBS&G 2022	12	15	18	450	780	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH507_0.5	JBS&G 2022	<2	<0.4	27	39	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH507_1.5	JBS&G 2022	6.3	1.2	26	68	210	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA20220217_PG1	JBS&G 2022	4.6	0.7	25	90	240	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20220217-PG1	JBS&G 2022	4	0.6	14	81	210	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH507_3.0	JBS&G 2022	4.1	0.5	13	59	140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH507_4.5	JBS&G 2022	3.4	0.5	16	64	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH507_6.0	JBS&G 2022	4.7	0.6	22	100	250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH507_7.5	JBS&G 2022	4.1	<0.4	12	69	290	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH507_9.0	JBS&G 2022	3.8	0.4	10	33	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH507_10.5	JBS&G 2022	3.8	<0.4	14	40	210	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH507_12.0	JBS&G 2022	6.0	0.5	16	68	280	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH508_0.5	JBS&G 2022	2.7	<0.4	7.2	84	26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH508_2.0	JBS&G 2022	5.3	<0.4	6.9	83	110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH508_3.5	JBS&G 2022	5.4	<0.4	13	110	180	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH508_4.5	JBS&G 2022	6.6	<0.4	14	110	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH508_6.0	JBS&G 2022	<2	<0.4	<5	<5	9.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH508_7.0	JBS&G 2022	<2	<0.4	<5	9.4	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH509_0.5	JBS&G 2022	<2	<0.4	<5	69	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table A - Soil
Project Number: 69329
Project Name: Stage 3, GSTC - 960A Bourke Street, Zetland NSW

							Metals & Metalloi																													
							Organochlorine Pesticides																														
		Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	4,4-DDE	a-BHC	b-BHC	d-BHC	g-BHC (Lindane)	Aldrin	Dieldrin	Aldrin + Dieldrin	Chlordane	Chlordane (cis)	Chlordane (trans)	DDT	DDE	DDD	DDT+DDE+DDD	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	gamma-Chlordane	Heptachlor	Heptachlor Epoxide	Hexachlorobenzene	Methoxychlor	Toxaphene
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL		2	0.4	1	1	1	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.1	0.1	0.05		0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05		0.05	0.05	0.05	0.05	0.5
NSW 2014 General Solid Waste CT1 (No Leaching)		100	20	100		100																													
NSW 2014 General Solid Waste SCC1 (with leached)		500	100	1,900		1,500																													
NSW 2014 Restricted Solid Waste CT2 (No Leaching)		400	80	400		400																													
NSW 2014 Restricted Solid Waste SCC2 (with leached)		2,000	400	7,600		6,000																													
Field ID	**Date**																																		
BH509_2.0	JBS&G 2022	7.3	1.3	14	110	370	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH509_2.5	JBS&G 2022	6.4	3.4	15	110	280	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA20220218PG3	JBS&G 2022	6.8	3.3	16	120	340	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20220218-PG3	JBS&G 2022	7	2	14	110	250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH509_3.5	JBS&G 2022	14	1.0	33	100	1,200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH509_5.0	JBS&G 2022	14	0.9	21	100	320	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH509_6.5	JBS&G 2022	11	12	44	280	570	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH509_7.5	JBS&G 2022	6.7	18	18	350	510	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH510_1.0	JBS&G 2022	18	0.5	18	81	160	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH510_2.5	JBS&G 2022	14	1.2	25	160	400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH510_4.0	JBS&G 2022	9.0	<0.4	21	36	110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH510_5.5	JBS&G 2022	15	1.2	57	730	470	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH510_7.0	JBS&G 2022	11	0.8	35	360	380	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH510_8.0	JBS&G 2022	6.8	0.5	24	210	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH511_0.5	JBS&G 2022	<2	<0.4	5.6	44	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH511_2.0	JBS&G 2022	7.7	0.7	13	29	170	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH511_3.5	JBS&G 2022	10.0	1.0	30	110	430	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH511_5.0	JBS&G 2022	6.8	0.4	28	61	270	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH511_6.5	JBS&G 2022	7.2	<0.4	19	170	560	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH511_8.0	JBS&G 2022	5.1	<0.4	11	96	360	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH512_0.5	JBS&G 2022	<2	<0.4	6.5	28	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH512_2.0	JBS&G 2022	9.0	<0.4	13	46	180	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA20220218PG1	JBS&G 2022	10	<0.4	12	53	110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20220218-PG1	JBS&G 2022	<4	<0.4	8	36	76	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH512_2.5	JBS&G 2022	47	<0.4	26	180	720	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH512_3.5	JBS&G 2022	570	0.9	23	1,100	5,100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH512_4.5	JBS&G 2022	77	0.6	16	170	1,100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH512_5.5	JBS&G 2022	38	<0.4	16	95	360	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table A - Soil
Project Number: 69329
Project Name: Stage 3, GSTC - 960A Bourke Street, Zetland NSW

						Metals & Metalloi				Chlorinated Alkanes																Chlorinated Alkenes											
		Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,2,3-trichloropropane	1,2-dibromo-3-chloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	2,2-dichloropropane	Bromochloromethane	Carbon tetrachloride	Chloroethane	Chloromethane	Dichlorodifluoromethane	Dichloromethane	Trichlorofluoromethane	Vinyl Chloride	1,1-dichloroethene	1,1-dichloropropene	2-chlorotoluene	3-chloropropene	4-chlorotoluene	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Trichloroethene
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL		2	0.4	1	1	1	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
NSW 2014 General Solid Waste CT1 (No Leaching)		100	20	100		100	200	600	26	24				10					10				172		4	14							14			10
NSW 2014 General Solid Waste SCC1 (with leached)		500	100	1,900		1,500	360	1,080	46.8	43.2				18					18				310		7.2	25							25.2			18
NSW 2014 Restricted Solid Waste CT2 (No Leaching)		400	80	400		400	800	2,400	104	96				40					40				688		16	56							56			40
NSW 2014 Restricted Solid Waste SCC2 (with leached)		2,000	400	7,600		6,000	1,440	4,320	187.2	172.8				72					72				1,240		28.8	100							100.8			72
Field ID	**Date**																																				
I3_3.9-4	Coffey 2011	4	0.4	9.5	59	140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I3_5.4-5.5	Coffey 2011	4	<0.3	13	33	430	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP3_0.5-0.6	Coffey 2011	5	0.5	8.2	90	130	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP3_2-2.1	Coffey 2011	25	<0.3	11	55	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP3_5.5-5.6	Coffey 2011	3	<0.3	3.5	15	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14_2-2.1	Coffey 2011	<3	<0.3	8.5	9.2	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14_5-5.1	Coffey 2011	5	<0.3	11	16	68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14_8.2-8.3	Coffey 2011	<3	<0.3	5.5	2.6	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R31_0.5-0.6	Coffey 2011	6	0.9	13	150	430	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R32_0.5-0.6	Coffey 2011	4	0.5	8	120	1,100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R32_2-2.1	Coffey 2011	8	0.8	27	190	210	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R33_1.5-1.6	Coffey 2011	9	0.5	43	300	310	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH7_0.2-0.4	HLA 2007	1	0.2	22	92	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH7_8.8-9	HLA 2007	7	0.2	18	86	320	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH8_0.1-0.2	HLA 2007	<1	<0.1	19	81	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH8_6-6.5	HLA 2007	3	0.1	7	11	79	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH10_4.3-4.5	HLA 2007	4	0.2	15	50	120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH10_7-7.5	HLA 2007	10	0.5	12	77	470	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH13_0.3-0.4	HLA 2007	8	0.4	8	85	220	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH13_7.6-8	HLA 2007	2	<0.1	5	13	79	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC062_0.1-0.2	JBS&G 2014	7.8	1.3	18	210	470	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC05	JBS&G 2014	4.1	1.3	27	210	470	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC05-A	JBS&G 2014	4	0.6	16	140	260	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC062_3.8-4	JBS&G 2014	2.6	0.4	7	59	120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC063_1.6-1.8	JBS&G 2014	9.7	1.2	20	190	400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC063_3.8-4	JBS&G 2014	3.5	0.6	10	89	190	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC064_0.1-0.2	JBS&G 2014	41	5.3	26	160	350	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC064_0.5-0.7	JBS&G 2014	<2	0.4	<5	50	41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC064_3.1-3.3	JBS&G 2014	33	23	120	830	5,900	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC064_4.7-4.9	JBS&G 2014	11	1	13	750	75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC065_0.1-0.2	JBS&G 2014	<2	0.7	25	65	140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC065_0.5-0.7	JBS&G 2014	4.5	3.5	11	67,000	1,800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC065_1-1.2	JBS&G 2014	<2	1.3	18	77	460	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC065_2.3-2.5	JBS&G 2014	3	<0.4	6.6	130	230	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC065_3-3.2	JBS&G 2014	15	<0.4	<5	77	140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC066_0.5-0.7	JBS&G 2014	3.9	0.8	11	190	310	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC066_1.5-1.7	JBS&G 2014	3.8	3.6	12	170	300	<0.05	<0.05	<0.5	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
FC066_2.5-2.7	JBS&G 2014	6.6	1.3	11	140	180	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC066_3.1-3.3	JBS&G 2014	5.8	<0.4	<5	280	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC067_0.5-0.6	JBS&G 2014	4.5	0.6	6.4	250	320	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC067_0.9-1.1	JBS&G 2014	<2	<0.4	<5	45	43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC067_3.1-3.3	JBS&G 2014	<2	0.4	<5	72	180	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC068_0.1-0.2	JBS&G 2014	4.3	2.2	20	450	350	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC068_1.1-1.3	JBS&G 2014	5.2	3.4	13	190	430	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC068_4.8-5	JBS&G 2014	2.6	0.8	5.8	82	340	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC069_6-6.1	JBS&G 2014	7.1	<0.4	39	24	99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC069_8-8.1	JBS&G 2014	<2	<0.4	130	22	51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC070_0.1-0.2	JBS&G 2014	5.2	0.7	7.8	140	350	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC070_0.5-0.6	JBS&G 2014	4.8	0.6	8.2	150	260	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC070_6-6.1	JBS&G 2014	3	<0.4	15	<5	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC18	JBS&G 2014	<2	<0.4	25	<5	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC18-A	JBS&G 2014	<4	<0.4	16	2	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC071_0.5-0.8	JBS&G 2014	10	0.4	8.4	120	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC071_2.8-3	JBS&G 2014	5.8	<0.4	<5	19	780	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC071_4.8-5	JBS&G 2014	46	0.6	6.8	95	520	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC071_6-6.1	JBS&G 2014	6.7	<0.4	38	41	160	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC071_8-8.1	JBS&G 2014	4.3	<0.4	42	18	97	<0.05	<0.05	<0.5	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Table A - Soil
Project Number: 69329
Project Name: Stage 3, GSTC - 960A Bourke Street, Zetland NSW

			Metals & Metalloi				Chlorinated Alkanes																	Chlorinated Alkenes											
		Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,2,3-trichloropropane	1,2-dibromo-3-chloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	2,2-dichloropropane	Bromochloromethane	Carbon tetrachloride	Chloroethane	Chloromethane	Dichlorodifluoromethane	Dichloromethane	Trichlorofluoromethane	Vinyl Chloride	1,1-dichloroethene	1,1-dichloropropene	2-chlorotoluene	3-chloropropene	4-chlorotoluene	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Trichloroethene
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL		2	0.4	1	1	1	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
NSW 2014 General Solid Waste CT1 (No Leaching)		100	20	100		100	200	600	26	24				10					10				172		4	14							14			10
NSW 2014 General Solid Waste SCC1 (with leached)		500	100	1,900		1,500	360	1,080	46.8	43.2				18					18				310		7.2	25							25.2			18
NSW 2014 Restricted Solid Waste CT2 (No Leaching)		400	80	400		400	800	2,400	104	96				40					40				688		16	56							56			40
NSW 2014 Restricted Solid Waste SCC2 (with leached)		2,000	400	7,600		6,000	1,440	4,320	187.2	172.8				72					72				1,240		28.8	100							100.8			72
Field ID	**Date**																																			
FC072_0.4-0.6	JBS&G 2014	<2	<0.4	<5	<5	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC072_1.5-0.7	JBS&G 2014	<2	<0.4	8.3	<5	6.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC072_2.9-3.1	JBS&G 2014	<2	<0.4	<5	5.4	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC072_6-6.1	JBS&G 2014	5.2	<0.4	33	22	110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC053_0-0.1	JBS&G 2014	4.3	0.4	9.9	63	130	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC053_2-2.1	JBS&G 2014	9	0.5	10	66	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC054_0.5	JBS&G 2014	4.5	0.8	7	38	110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC054_1-1.1	JBS&G 2014	3.9	<0.4	5.9	23	55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC055_0-0.1	JBS&G 2014	22	2.8	14	200	8,600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC01	JBS&G 2014	11	1.2	26	370	780	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC01-A	JBS&G 2014	9	1.4	12	100	1,500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC055_1-1.1	JBS&G 2014	5	0.7	7.8	78	470	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC055_4-4.1	JBS&G 2014	11	1.6	26	2,700	1,100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC056_2-2.1	JBS&G 2014	12	<0.4	<5	110	250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC056_3-3.1	JBS&G 2014	12	0.4	10	32	90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC057_0-0.1	JBS&G 2014	<2	1.6	33	230	340	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC057_2-2.1	JBS&G 2014	<2	1.3	11	280	460	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC058_0.5-0.6	JBS&G 2014	<2	1.8	8	110	240	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC02	JBS&G 2014	3.8	1.6	9.1	120	500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC02-A	JBS&G 2014	8	0.5	10	93	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC058_5-5.1	JBS&G 2014	<2	3	14	170	550	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC059_0.5-0.6	JBS&G 2014	<2	1.9	19	120	570	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC059_1-1.1	JBS&G 2014	30	3.8	46	3,100	2,400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC060_1-1.1	JBS&G 2014	<2	4.9	30	240	680	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC060_2-2.1	JBS&G 2014	4.6	3.1	47	760	1,600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC060_3-3.1	JBS&G 2014	8.2	3.3	17	1,000	700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC061_1-1.1	JBS&G 2014	<2	1.7	13	170	380	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC061_3-3.1	JBS&G 2014	<2	5.6	26	220	490	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH500_0.5	JBS&G 2022	<2	<0.4	5.5	30	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH500_2.0	JBS&G 2022	8.8	<0.4	10	34	36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA20220217_PG6	JBS&G 2022	8.5	<0.4	11	43	39	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20220217-PG6	JBS&G 2022	9	<0.4	6	31	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH500_3.5	JBS&G 2022	11	<0.4	21	18	120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH500_5.0	JBS&G 2022	4.2	<0.4	19	14	130	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH500_6.5	JBS&G 2022	5.6	<0.4	17	29	48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH500_8.0	JBS&G 2022	7.8	<0.4	13	36	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH500_9.5	JBS&G 2022	6.7	<0.4	12	30	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH500_11.0	JBS&G 2022	10	<0.4	12	26	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH501_1.0	JBS&G 2022	8.0	0.6	19	110	320	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH501_2.5	JBS&G 2022	24	0.6	35	250	340	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH501_4.0	JBS&G 2022	11	0.6	23	130	320	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA20220217_PG5	JBS&G 2022	8.6	0.4	19	140	260	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20220217-PG5	JBS&G 2022	6	<0.4	12	70	180	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH501_5.5	JBS&G 2022	11	0.6	25	630	500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH501_7.0	JBS&G 2022	12	0.7	32	77	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH501_8.5	JBS&G 2022	15	<0.4	33	67	210	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH501_10.0	JBS&G 2022	14	<0.4	24	45	170	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH501_11.5	JBS&G 2022	8.7	<0.4	13	7.0	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH502_1.0	JBS&G 2022	13	0.5	23	200	280	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH502_2.0	JBS&G 2022	8.3	<0.4	20	94	170	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH502_3.5	JBS&G 2022	6.4	<0.4	20	310	120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH502_5.0	JBS&G 2022	4.7	<0.4	13	110	310	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH502_6.5	JBS&G 2022	4.9	<0.4	13	110	360	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH502_8.0	JBS&G 2022	5.5	<0.4	18	100	250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH502_9.5	JBS&G 2022	4.9	<0.4	19	88	220	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH502_11.0	JBS&G 2022	12	<0.4	25	23	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH502_12.5	JBS&G 2022	6.0	<0.4	14	50	96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table A - Soil
Project Number: 69329
Project Name: Stage 3, GSTC - 960A Bourke Street, Zetland NSW

			Metals & Metalloi				Chlorinated Alkanes																	Chlorinated Alkenes											
		Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,2,3-trichloropropane	1,2-dibromo-3-chloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	2,2-dichloropropane	Bromochloromethane	Carbon tetrachloride	Chloroethane	Chloromethane	Dichlorodifluoromethane	Dichloromethane	Trichlorofluoromethane	Vinyl Chloride	1,1-dichloroethene	1,1-dichloropropene	2-chlorotoluene	3-chloropropene	4-chlorotoluene	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Trichloroethene
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL		2	0.4	1	1	1	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
NSW 2014 General Solid Waste CT1 (No Leaching)		100	20	100		100	200	600	26	24				10					10				172		4	14							14			10
NSW 2014 General Solid Waste SCC1 (with leached)		500	100	1,900		1,500	360	1,080	46.8	43.2				18					18				310		7.2	25							25.2			18
NSW 2014 Restricted Solid Waste CT2 (No Leaching)		400	80	400		400	800	2,400	104	96				40					40				688		16	56							56			40
NSW 2014 Restricted Solid Waste SCC2 (with leached)		2,000	400	7,600		6,000	1,440	4,320	187.2	172.8				72					72				1,240		28.8	100							100.8			72
Field ID	**Date**																																			
BH503_0.5	JBS&G 2022	2.2	<0.4	12	27	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH503_2.0	JBS&G 2022	8.0	0.8	18	440	540	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH503_3.5	JBS&G 2022	12	1.3	26	440	1,600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH503_5.0	JBS&G 2022	23	3.0	62	2,600	2,300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH503_6.5	JBS&G 2022	11	1.2	36	970	630	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH503_8.0	JBS&G 2022	20	0.5	27	200	1,400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH503_9.5	JBS&G 2022	16	0.7	34	880	820	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH503_11.0	JBS&G 2022	9.4	0.7	21	220	720	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH503_12.5	JBS&G 2022	6.2	<0.4	17	26	58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH504_0.5	JBS&G 2022	3.8	<0.4	28	71	51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA20220217_PG2	JBS&G 2022	3.6	0.4	16	66	220	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20220217-PG2	JBS&G 2022	<4	0.5	18	170	210	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH504_2.0	JBS&G 2022	3.4	<0.4	13	65	230	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH504_3.5	JBS&G 2022	4.4	0.6	38	130	260	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA20220217_PG3	JBS&G 2022	3.8	0.5	18	130	280	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20220217-PG3	JBS&G 2022	<4	<0.4	14	110	170	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH504_4.5	JBS&G 2022	6.4	1.2	24	210	470	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH504_6.0	JBS&G 2022	12	1.5	23	360	840	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH504_7.5	JBS&G 2022	32	1.3	41	2,900	2,800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH504_9.0	JBS&G 2022	14	0.6	21	420	500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH504_10.5	JBS&G 2022	19	0.6	25	250	560	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH504_12.0	JBS&G 2022	20	0.5	180	570	3,500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH505_1.5	JBS&G 2022	7.6	0.8	16	100	270	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH505_3.0	JBS&G 2022	11	1.1	22	160	430	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA20220217_PG4	JBS&G 2022	9.5	0.9	26	150	410	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20220217-PG4	JBS&G 2022	6	0.8	15	100	290	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH505_4.5	JBS&G 2022	10	36	24	130	280	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH505_6.0	JBS&G 2022	7.4	1.0	27	190	2,300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH505_7.5	JBS&G 2022	7.4	1.2	36	140	390	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH505_9.0	JBS&G 2022	8.1	1.2	31	130	470	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH505_10.5	JBS&G 2022	9.4	1.0	31	130	400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH505_11.5	JBS&G 2022	8.5	1.3	22	140	360	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH506_1.0	JBS&G 2022	6.6	0.5	27	110	240	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH506_2.5	JBS&G 2022	7.6	2.3	81	4,200	640	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH506_4.0	JBS&G 2022	6.1	1.1	91	150	340	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH506_5.0	JBS&G 2022	5.0	0.9	25	100	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH506_6.5	JBS&G 2022	5.2	0.8	22	170	240	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH506_8.0	JBS&G 2022	10	13	9.4	48	180	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH506_9.0	JBS&G 2022	12	15	18	450	780	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH507_0.5	JBS&G 2022	<2	<0.4	27	39	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH507_1.5	JBS&G 2022	6.3	1.2	26	68	210	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA20220217_PG1	JBS&G 2022	4.6	0.7	25	90	240	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20220217-PG1	JBS&G 2022	4	0.6	14	81	210	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH507_3.0	JBS&G 2022	4.1	0.5	13	59	140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH507_4.5	JBS&G 2022	3.4	0.5	16	64	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH507_6.0	JBS&G 2022	4.7	0.6	22	100	250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH507_7.5	JBS&G 2022	4.1	<0.4	12	69	290	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH507_9.0	JBS&G 2022	3.8	0.4	10	33	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH507_10.5	JBS&G 2022	3.8	<0.4	14	40	210	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH507_12.0	JBS&G 2022	6.0	0.5	16	68	280	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH508_0.5	JBS&G 2022	2.7	<0.4	7.2	84	26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH508_2.0	JBS&G 2022	5.3	<0.4	6.9	83	110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH508_3.5	JBS&G 2022	5.4	<0.4	13	110	180	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH508_4.5	JBS&G 2022	6.6	<0.4	14	110	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH508_6.0	JBS&G 2022	<2	<0.4	<5	<5	9.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH508_7.0	JBS&G 2022	<2	<0.4	<5	9.4	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH509_0.5	JBS&G 2022	<2	<0.4	<5	69	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table A - Soil
Project Number: 69329
Project Name: Stage 3, GSTC - 960A Bourke Street, Zetland NSW

						Metals & Metalloi				Chlorinated Alkanes																Chlorinated Alkenes											
		Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,2,3-trichloropropane	1,2-dibromo-3-chloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	2,2-dichloropropane	Bromochloromethane	Carbon tetrachloride	Chloroethane	Chloromethane	Dichlorodifluoromethane	Dichloromethane	Trichlorofluoromethane	Vinyl Chloride	1,1-dichloroethene	1,1-dichloropropene	2-chlorotoluene	3-chloropropene	4-chlorotoluene	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Trichloroethene
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL		2	0.4	1	1	1	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
NSW 2014 General Solid Waste CT1 (No Leaching)		100	20	100		100	200	600	26	24				10					10				172		4	14							14			10
NSW 2014 General Solid Waste SCC1 (with leached)		500	100	1,900		1,500	360	1,080	46.8	43.2				18					18				310		7.2	25							25.2			18
NSW 2014 Restricted Solid Waste CT2 (No Leaching)		400	80	400		400	800	2,400	104	96				40					40				688		16	56							56			40
NSW 2014 Restricted Solid Waste SCC2 (with leached)		2,000	400	7,600		6,000	1,440	4,320	187.2	172.8				72					72				1,240		28.8	100							100.8			72
Field ID	**Date**																																				
BH509_2.0	JBS&G 2022	7.3	1.3	14	110	370	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH509_2.5	JBS&G 2022	6.4	3.4	15	110	280	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA20220218PG3	JBS&G 2022	6.8	3.3	16	120	340	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20220218-PG3	JBS&G 2022	7	2	14	110	250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH509_3.5	JBS&G 2022	14	1.0	33	100	1,200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH509_5.0	JBS&G 2022	14	0.9	21	100	320	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH509_6.5	JBS&G 2022	11	12	44	280	570	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH509_7.5	JBS&G 2022	6.7	18	18	350	510	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH510_1.0	JBS&G 2022	18	0.5	18	81	160	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH510_2.5	JBS&G 2022	14	1.2	25	160	400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH510_4.0	JBS&G 2022	9.0	<0.4	21	36	110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH510_5.5	JBS&G 2022	15	1.2	57	730	470	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH510_7.0	JBS&G 2022	11	0.8	35	360	380	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH510_8.0	JBS&G 2022	6.8	0.5	24	210	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH511_0.5	JBS&G 2022	<2	<0.4	5.6	44	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH511_2.0	JBS&G 2022	7.7	0.7	13	29	170	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH511_3.5	JBS&G 2022	10.0	1.0	30	110	430	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH511_5.0	JBS&G 2022	6.8	0.4	28	61	270	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH511_6.5	JBS&G 2022	7.2	<0.4	19	170	560	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH511_8.0	JBS&G 2022	5.1	<0.4	11	96	360	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH512_0.5	JBS&G 2022	<2	<0.4	6.5	28	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH512_2.0	JBS&G 2022	9.0	<0.4	13	46	180	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA20220218PG1	JBS&G 2022	10	<0.4	12	53	110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20220218-PG1	JBS&G 2022	<4	<0.4	8	36	76	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH512_2.5	JBS&G 2022	47	<0.4	26	180	720	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH512_3.5	JBS&G 2022	570	0.9	23	1,100	5,100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH512_4.5	JBS&G 2022	77	0.6	16	170	1,100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH512_5.5	JBS&G 2022	38	<0.4	16	95	360	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table A - Soil
Project Number: 69329
Project Name: Stage 3, GSTC - 960A Bourke Street, Zetland NSW

	Metals & Metalloi					Solvents	Polychlorinated Biphenyls								MAH										Miscellaneous Hydrocarbons						
	Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Acetone	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	PCBs (Sum of total)	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	n-butylbenzene	n-propylbenzene	p-isopropyltoluene	sec-butylbenzene	Styrene	tert-butylbenzene	Total MAH	Bromobenzene	Isopropylbenzene	1,2-dibromoethane	Bromomethane	Cyclohexane	Dibromomethane	Iodomethane	4-Methyl-2-pentanone	Methyl Ethyl Ketone
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	2	0.4	1	1	1	0.5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5	0.5	1	1	1	1	0.5	1	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5
NSW 2014 General Solid Waste CT1 (No Leaching)	100	20	100		100									50							60											4,000
NSW 2014 General Solid Waste SCC1 (with leached)	500	100	1,900		1,500									50							108											7,200
NSW 2014 Restricted Solid Waste CT2 (No Leaching)	400	80	400		400									50							240											16,000
NSW 2014 Restricted Solid Waste SCC2 (with leached)	2,000	400	7,600		6,000									50							432											28,800
Field ID	**Date**																															
I3_3.9-4	Coffey 2011	4	0.4	9.5	59	140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I3_5.4-5.5	Coffey 2011	4	<0.3	13	33	430	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP3_0.5-0.6	Coffey 2011	5	0.5	8.2	90	130	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP3_2-2.1	Coffey 2011	25	<0.3	11	55	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHP3_5.5-5.6	Coffey 2011	3	<0.3	3.5	15	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14_2-2.1	Coffey 2011	<3	<0.3	8.5	9.2	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14_5-5.1	Coffey 2011	5	<0.3	11	16	68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14_8.2-8.3	Coffey 2011	<3	<0.3	5.5	2.6	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R31_0.5-0.6	Coffey 2011	6	0.9	13	150	430	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R32_0.5-0.6	Coffey 2011	4	0.5	8	120	1,100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R32_2-2.1	Coffey 2011	8	0.8	27	190	210	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
R33_1.5-1.6	Coffey 2011	9	0.5	43	300	310	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH7_0.2-0.4	HLA 2007	1	0.2	22	92	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH7_8.8-9	HLA 2007	7	0.2	18	86	320	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH8_0.1-0.2	HLA 2007	<1	<0.1	19	81	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH8_6-6.5	HLA 2007	3	0.1	7	11	79	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH10_4.3-4.5	HLA 2007	4	0.2	15	50	120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH10_7-7.5	HLA 2007	10	0.5	12	77	470	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH13_0.3-0.4	HLA 2007	8	0.4	8	85	220	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH13_7.6-8	HLA 2007	2	<0.1	5	13	79	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC062_0.1-0.2	JBS&G 2014	7.8	1.3	18	210	470	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	<0.05	<0.05	-	-	-	-	<0.05	-	-	<0.05	<0.05	<0.05	<0.05	-	<0.5	<0.05	<0.05	<0.05
QC05	JBS&G 2014	4.1	1.3	27	210	470	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	<0.05	<0.05	-	-	-	-	<0.05	-	-	<0.05	<0.05	<0.05	<0.05	-	<0.5	<0.05	<0.05	<0.05
QC05-A	JBS&G 2014	4	0.6	16	140	260	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.35	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1	<1	<1	<1	<1	-	-	-
FC062_3.8-4	JBS&G 2014	2.6	0.4	7	59	120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC063_1.6-1.8	JBS&G 2014	9.7	1.2	20	190	400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC063_3.8-4	JBS&G 2014	3.5	0.6	10	89	190	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC064_0.1-0.2	JBS&G 2014	41	5.3	26	160	350	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC064_0.5-0.7	JBS&G 2014	<2	0.4	<5	50	41	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC064_3.1-3.3	JBS&G 2014	33	23	120	830	5,900	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC064_4.7-4.9	JBS&G 2014	11	1	13	750	75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC065_0.1-0.2	JBS&G 2014	<2	0.7	25	65	140	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC065_0.5-0.7	JBS&G 2014	4.5	3.5	11	67,000	1,800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC065_1-1.2	JBS&G 2014	<2	1.3	18	77	460	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC065_2.3-2.5	JBS&G 2014	3	<0.4	6.6	130	230	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC065_3-3.2	JBS&G 2014	15	<0.4	<5	77	140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC066_0.5-0.7	JBS&G 2014	3.9	0.8	11	190	310	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC066_1.5-1.7	JBS&G 2014	3.8	3.6	12	170	300	-	-	-	-	-	-	-	-	-	<0.05	<0.05	-	-	-	-	<0.05	-	-	<0.05	<0.05	<0.05	<0.05	-	<0.5	<0.05	<0.05	<0.05
FC066_2.5-2.7	JBS&G 2014	6.6	1.3	11	140	180	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC066_3.1-3.3	JBS&G 2014	5.8	<0.4	<5	280	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC067_0.5-0.6	JBS&G 2014	4.5	0.6	6.4	250	320	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC067_0.9-1.1	JBS&G 2014	<2	<0.4	<5	45	43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC067_3.1-3.3	JBS&G 2014	<2	0.4	<5	72	180	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC068_0.1-0.2	JBS&G 2014	4.3	2.2	20	450	350	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC068_1.1-1.3	JBS&G 2014	5.2	3.4	13	190	430	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC068_4.8-5	JBS&G 2014	2.6	0.8	5.8	82	340	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC069_6-6.1	JBS&G 2014	7.1	<0.4	39	24	99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC069_8-8.1	JBS&G 2014	<2	<0.4	130	22	51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC070_0.1-0.2	JBS&G 2014	5.2	0.7	7.8	140	350	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC070_0.5-0.6	JBS&G 2014	4.8	0.6	8.2	150	260	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC070_6-6.1	JBS&G 2014	3	<0.4	15	<5	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC18	JBS&G 2014	<2	<0.4	25	<5	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC18-A	JBS&G 2014	<4	<0.4	16	2	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC071_0.5-0.8	JBS&G 2014	10	0.4	8.4	120	300	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC071_2.8-3	JBS&G 2014	5.8	<0.4	<5	19	780	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC071_4.8-5	JBS&G 2014	46	0.6	6.8	95	520	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC071_6-6.1	JBS&G 2014	6.7	<0.4	38	41	160	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC071_8-8.1	JBS&G 2014	4.3	<0.4	42	18	97	-	-	-	-	-	-	-	-	-	<0.05	<0.05	-	-	-	-	<0.05	-	-	<0.05	<0.05	<0.05	<0.05	-	<0.5	<0.05	<0.05	<0.05

Table A - Soil
Project Number: 69329
Project Name: Stage 3, GSTC - 960A Bourke Street, Zetland NSW

		Metals & Metalloi					Solvents	Polychlorinated Biphenyls								MAH												Miscellaneous Hydrocarbons						
		Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Acetone	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	PCBs (Sum of total)	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	n-butylbenzene	n-propylbenzene	p-isopropyltoluene	sec-butylbenzene	Styrene	tert-butylbenzene	Total MAH	Bromobenzene	Isopropylbenzene	1,2-dibromoethane	Bromomethane	Cyclohexane	Dibromomethane	Iodomethane	4-Methyl-2-pentanone	Methyl Ethyl Ketone
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL		2	0.4	1	1	1	0.5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5	0.5	1	1	1	1	0.5	1	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5
NSW 2014 General Solid Waste CT1 (No Leaching)		100	20	100		100									50							60												4,000
NSW 2014 General Solid Waste SCC1 (with leached)		500	100	1,900		1,500									50							108												7,200
NSW 2014 Restricted Solid Waste CT2 (No Leaching)		400	80	400		400									50							240												16,000
NSW 2014 Restricted Solid Waste SCC2 (with leached)		2,000	400	7,600		6,000									50							432												28,800
Field ID	**Date**																																		
FC072_0.4-0.6	JBS&G 2014	<2	<0.4	<5	<5	<5	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC072_1.5-0.7	JBS&G 2014	<2	<0.4	8.3	<5	6.2	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC072_2.9-3.1	JBS&G 2014	<2	<0.4	<5	5.4	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC072_6-6.1	JBS&G 2014	5.2	<0.4	33	22	110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC053_0-0.1	JBS&G 2014	4.3	0.4	9.9	63	130	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC053_2-2.1	JBS&G 2014	9	0.5	10	66	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC054_0.5	JBS&G 2014	4.5	0.8	7	38	110	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC054_1-1.1	JBS&G 2014	3.9	<0.4	5.9	23	55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC055_0-0.1	JBS&G 2014	22	2.8	14	200	8,600	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC01	JBS&G 2014	11	1.2	26	370	780	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC01-A	JBS&G 2014	9	1.4	12	100	1,500	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC055_1-1.1	JBS&G 2014	5	0.7	7.8	78	470	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC055_4-4.1	JBS&G 2014	11	1.6	26	2,700	1,100	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC056_2-2.1	JBS&G 2014	12	<0.4	<5	110	250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC056_3-3.1	JBS&G 2014	12	0.4	10	32	90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC057_0-0.1	JBS&G 2014	<2	1.6	33	230	340	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC057_2-2.1	JBS&G 2014	<2	1.3	11	280	460	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC058_0.5-0.6	JBS&G 2014	<2	1.8	8	110	240	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC02	JBS&G 2014	3.8	1.6	9.1	120	500	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC02-A	JBS&G 2014	8	0.5	10	93	330	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC058_5-5.1	JBS&G 2014	<2	3	14	170	550	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC059_0.5-0.6	JBS&G 2014	<2	1.9	19	120	570	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC059_1-1.1	JBS&G 2014	30	3.8	46	3,100	2,400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC060_1-1.1	JBS&G 2014	<2	4.9	30	240	680	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC060_2-2.1	JBS&G 2014	4.6	3.1	47	760	1,600	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC060_3-3.1	JBS&G 2014	8.2	3.3	17	1,000	700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC061_1-1.1	JBS&G 2014	<2	1.7	13	170	380	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC061_3-3.1	JBS&G 2014	<2	5.6	26	220	490	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH500_0.5	JBS&G 2022	<2	<0.4	5.5	30	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH500_2.0	JBS&G 2022	8.8	<0.4	10	34	36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA20220217_PG6	JBS&G 2022	8.5	<0.4	11	43	39	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20220217-PG6	JBS&G 2022	9	<0.4	6	31	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH500_3.5	JBS&G 2022	11	<0.4	21	18	120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH500_5.0	JBS&G 2022	4.2	<0.4	19	14	130	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH500_6.5	JBS&G 2022	5.6	<0.4	17	29	48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH500_8.0	JBS&G 2022	7.8	<0.4	13	36	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH500_9.5	JBS&G 2022	6.7	<0.4	12	30	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH500_11.0	JBS&G 2022	10	<0.4	12	26	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH501_1.0	JBS&G 2022	8.0	0.6	19	110	320	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH501_2.5	JBS&G 2022	24	0.6	35	250	340	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH501_4.0	JBS&G 2022	11	0.6	23	130	320	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA20220217_PG5	JBS&G 2022	8.6	0.4	19	140	260	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20220217-PG5	JBS&G 2022	6	<0.4	12	70	180	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH501_5.5	JBS&G 2022	11	0.6	25	630	500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH501_7.0	JBS&G 2022	12	0.7	32	77	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH501_8.5	JBS&G 2022	15	<0.4	33	67	210	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH501_10.0	JBS&G 2022	14	<0.4	24	45	170	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH501_11.5	JBS&G 2022	8.7	<0.4	13	7.0	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH502_1.0	JBS&G 2022	13	0.5	23	200	280	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH502_2.0	JBS&G 2022	8.3	<0.4	20	94	170	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH502_3.5	JBS&G 2022	6.4	<0.4	20	310	120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH502_5.0	JBS&G 2022	4.7	<0.4	13	110	310	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH502_6.5	JBS&G 2022	4.9	<0.4	13	110	360	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH502_8.0	JBS&G 2022	5.5	<0.4	18	100	250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH502_9.5	JBS&G 2022	4.9	<0.4	19	88	220	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH502_11.0	JBS&G 2022	12	<0.4	25	23	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH502_12.5	JBS&G 2022	6.0	<0.4	14	50	96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table A - Soil
Project Number: 69329
Project Name: Stage 3, GSTC - 960A Bourke Street, Zetland NSW

			Metals & Metalloi				Solvents	Polychlorinated Biphenyls								MAH										Miscellaneous Hydrocarbons						
		Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Acetone	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	PCBs (Sum of total)	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	n-butylbenzene	n-propylbenzene	p-isopropyltoluene	sec-butylbenzene	Styrene	tert-butylbenzene	Total MAH	Bromobenzene	Isopropylbenzene	1,2-dibromoethane	Bromomethane	Cyclohexane	Dibromomethane	Iodomethane	4-Methyl-2-pentanone	Methyl Ethyl Ketone
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL		2	0.4	1	1	1	0.5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5	0.5	1	1	1	1	0.5	1	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5
NSW 2014 General Solid Waste CT1 (No Leaching)		100	20	100		100									50							60											4,000
NSW 2014 General Solid Waste SCC1 (with leached)		500	100	1,900		1,500									50							108											7,200
NSW 2014 Restricted Solid Waste CT2 (No Leaching)		400	80	400		400									50							240											16,000
NSW 2014 Restricted Solid Waste SCC2 (with leached)		2,000	400	7,600		6,000									50							432											28,800
Field ID	**Date**																																
BH503_0.5	JBS&G 2022	2.2	<0.4	12	27	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH503_2.0	JBS&G 2022	8.0	0.8	18	440	540	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH503_3.5	JBS&G 2022	12	1.3	26	440	1,600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH503_5.0	JBS&G 2022	23	3.0	62	2,600	2,300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH503_6.5	JBS&G 2022	11	1.2	36	970	630	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH503_8.0	JBS&G 2022	20	0.5	27	200	1,400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH503_9.5	JBS&G 2022	16	0.7	34	880	820	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH503_11.0	JBS&G 2022	9.4	0.7	21	220	720	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH503_12.5	JBS&G 2022	6.2	<0.4	17	26	58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH504_0.5	JBS&G 2022	3.8	<0.4	28	71	51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA20220217_PG2	JBS&G 2022	3.6	0.4	16	66	220	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20220217-PG2	JBS&G 2022	<4	0.5	18	170	210	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH504_2.0	JBS&G 2022	3.4	<0.4	13	65	230	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH504_3.5	JBS&G 2022	4.4	0.6	38	130	260	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA20220217_PG3	JBS&G 2022	3.8	0.5	18	130	280	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20220217-PG3	JBS&G 2022	<4	<0.4	14	110	170	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH504_4.5	JBS&G 2022	6.4	1.2	24	210	470	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH504_6.0	JBS&G 2022	12	1.5	23	360	840	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH504_7.5	JBS&G 2022	32	1.3	41	2,900	2,800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH504_9.0	JBS&G 2022	14	0.6	21	420	500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH504_10.5	JBS&G 2022	19	0.6	25	250	560	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH504_12.0	JBS&G 2022	20	0.5	180	570	3,500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH505_1.5	JBS&G 2022	7.6	0.8	16	100	270	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH505_3.0	JBS&G 2022	11	1.1	22	160	430	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA20220217_PG4	JBS&G 2022	9.5	0.9	26	150	410	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20220217-PG4	JBS&G 2022	6	0.8	15	100	290	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH505_4.5	JBS&G 2022	10	36	24	130	280	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH505_6.0	JBS&G 2022	7.4	1.0	27	190	2,300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH505_7.5	JBS&G 2022	7.4	1.2	36	140	390	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH505_9.0	JBS&G 2022	8.1	1.2	31	130	470	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH505_10.5	JBS&G 2022	9.4	1.0	31	130	400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH505_11.5	JBS&G 2022	8.5	1.3	22	140	360	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH506_1.0	JBS&G 2022	6.6	0.5	27	110	240	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH506_2.5	JBS&G 2022	7.6	2.3	81	4,200	640	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH506_4.0	JBS&G 2022	6.1	1.1	91	150	340	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH506_5.0	JBS&G 2022	5.0	0.9	25	100	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH506_6.5	JBS&G 2022	5.2	0.8	22	170	240	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH506_8.0	JBS&G 2022	10	13	9.4	48	180	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH506_9.0	JBS&G 2022	12	15	18	450	780	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH507_0.5	JBS&G 2022	<2	<0.4	27	39	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH507_1.5	JBS&G 2022	6.3	1.2	26	68	210	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA20220217_PG1	JBS&G 2022	4.6	0.7	25	90	240	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20220217-PG1	JBS&G 2022	4	0.6	14	81	210	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH507_3.0	JBS&G 2022	4.1	0.5	13	59	140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH507_4.5	JBS&G 2022	3.4	0.5	16	64	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH507_6.0	JBS&G 2022	4.7	0.6	22	100	250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH507_7.5	JBS&G 2022	4.1	<0.4	12	69	290	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH507_9.0	JBS&G 2022	3.8	0.4	10	33	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH507_10.5	JBS&G 2022	3.8	<0.4	14	40	210	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH507_12.0	JBS&G 2022	6.0	0.5	16	68	280	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH508_0.5	JBS&G 2022	2.7	<0.4	7.2	84	26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH508_2.0	JBS&G 2022	5.3	<0.4	6.9	83	110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH508_3.5	JBS&G 2022	5.4	<0.4	13	110	180	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH508_4.5	JBS&G 2022	6.6	<0.4	14	110	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH508_6.0	JBS&G 2022	<2	<0.4	<5	<5	9.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH508_7.0	JBS&G 2022	<2	<0.4	<5	9.4	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH509_0.5	JBS&G 2022	<2	<0.4	<5	69	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table A - Soil
Project Number: 69329
Project Name: Stage 3, GSTC - 960A Bourke Street, Zetland NSW

			Metals & Metalloi				Solvents	Polychlorinated Biphenyls								MAH										Miscellaneous Hydrocarbons						
		Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Acetone	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	PCBs (Sum of total)	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	n-butylbenzene	n-propylbenzene	p-isopropyltoluene	sec-butylbenzene	Styrene	tert-butylbenzene	Total MAH	Bromobenzene	Isopropylbenzene	1,2-dibromoethane	Bromomethane	Cyclohexane	Dibromomethane	Iodomethane	4-Methyl-2-pentanone	Methyl Ethyl Ketone
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL		2	0.4	1	1	1	0.5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5	0.5	1	1	1	1	0.5	1	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5
NSW 2014 General Solid Waste CT1 (No Leaching)		100	20	100		100									50							60											4,000
NSW 2014 General Solid Waste SCC1 (with leached)		500	100	1,900		1,500									50							108											7,200
NSW 2014 Restricted Solid Waste CT2 (No Leaching)		400	80	400		400									50							240											16,000
NSW 2014 Restricted Solid Waste SCC2 (with leached)		2,000	400	7,600		6,000									50							432											28,800
Field ID	**Date**																																
BH509_2.0	JBS&G 2022	7.3	1.3	14	110	370	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH509_2.5	JBS&G 2022	6.4	3.4	15	110	280	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA20220218PG3	JBS&G 2022	6.8	3.3	16	120	340	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20220218-PG3	JBS&G 2022	7	2	14	110	250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH509_3.5	JBS&G 2022	14	1.0	33	100	1,200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH509_5.0	JBS&G 2022	14	0.9	21	100	320	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH509_6.5	JBS&G 2022	11	12	44	280	570	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH509_7.5	JBS&G 2022	6.7	18	18	350	510	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH510_1.0	JBS&G 2022	18	0.5	18	81	160	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH510_2.5	JBS&G 2022	14	1.2	25	160	400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH510_4.0	JBS&G 2022	9.0	<0.4	21	36	110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH510_5.5	JBS&G 2022	15	1.2	57	730	470	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH510_7.0	JBS&G 2022	11	0.8	35	360	380	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH510_8.0	JBS&G 2022	6.8	0.5	24	210	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH511_0.5	JBS&G 2022	<2	<0.4	5.6	44	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH511_2.0	JBS&G 2022	7.7	0.7	13	29	170	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH511_3.5	JBS&G 2022	10.0	1.0	30	110	430	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH511_5.0	JBS&G 2022	6.8	0.4	28	61	270	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH511_6.5	JBS&G 2022	7.2	<0.4	19	170	560	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH511_8.0	JBS&G 2022	5.1	<0.4	11	96	360	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH512_0.5	JBS&G 2022	<2	<0.4	6.5	28	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH512_2.0	JBS&G 2022	9.0	<0.4	13	46	180	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA20220218PG1	JBS&G 2022	10	<0.4	12	53	110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20220218-PG1	JBS&G 2022	<4	<0.4	8	36	76	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH512_2.5	JBS&G 2022	47	<0.4	26	180	720	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH512_3.5	JBS&G 2022	570	0.9	23	1,100	5,100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH512_4.5	JBS&G 2022	77	0.6	16	170	1,100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH512_5.5	JBS&G 2022	38	<0.4	16	95	360	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table A - Soil
Project Number: 69329
Project Name: Stage 3, GSTC - 960A Bourke Street, Zetland NSW

			Metals & Metalloi				Chlorinated Benzenes						Trihalomethanes				Organic Sulfur Compounds	Inorganics			Particle Size			Moisture Content	Other							
		Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	1,2,3-trichlorobenzene	1,2,4-trichlorobenzene	1,2-Dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Chlorobenzene	Dibromochloromethane	Chloroform	Tribromomethane	Bromodichloromethane	Carbon disulfide	Electrical Conductivity (Non Compensated)	Moisture	pH 1:5 soil:water1:5 soil:water	% Clay*	<2mm Fraction	>2mm Fraction	Moisture Content	Moisture Content (dried @ 103°C)	Analysed Material	Asphalt	Extraneous Material	Low Molecular Weight PAHss	Scheduled chemicals	Total DDT	Total Organic Carbon_
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	dS/cm	%	ph	%	%	%	%	%	%	%	%	mg/kg	mg/kg	mg/kg	mg/kg
EQL		2	0.4	1	1	1	1	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5				1	0.005	0.005	0.1	1	0.1		0.1				100
NSW 2014 General Solid Waste CT1 (No Leaching)		100	20	100		100			86		150	2,000		120																50		
NSW 2014 General Solid Waste SCC1 (with leached)		500	100	1,900		1,500			155		270	3,600		216																50		
NSW 2014 Restricted Solid Waste CT2 (No Leaching)		400	80	400		400			344		600	8,000		480																50		
NSW 2014 Restricted Solid Waste SCC2 (with leached)		2,000	400	7,600		6,000			620		1,080	14,400		864																50		
Field ID	**Date**																															
I3_3.9-4	Coffey 2011	4	0.4	9.5	59	140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	71	-	-	-
I3_5.4-5.5	Coffey 2011	4	<0.3	13	33	430	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30	-	-	-
BHP3_0.5-0.6	Coffey 2011	5	0.5	8.2	90	130	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30.24	-	-	-
BHP3_2-2.1	Coffey 2011	25	<0.3	11	55	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17.28	-	-	-
BHP3_5.5-5.6	Coffey 2011	3	<0.3	3.5	15	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.15	-	-	-
BH14_2-2.1	Coffey 2011	<3	<0.3	8.5	9.2	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	71	-	-	-
BH14_5-5.1	Coffey 2011	5	<0.3	11	16	68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.3	-	-	-
BH14_8.2-8.3	Coffey 2011	<3	<0.3	5.5	2.6	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1.6	-	-	-
R31_0.5-0.6	Coffey 2011	6	0.9	13	150	430	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31.79	-	-	-
R32_0.5-0.6	Coffey 2011	4	0.5	8	120	1,100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	38.81	-	-	-
R32_2-2.1	Coffey 2011	8	0.8	27	190	210	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	38.84	-	-	-
R33_1.5-1.6	Coffey 2011	9	0.5	43	300	310	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.42	-	-	-
BH7_0.2-0.4	HLA 2007	1	0.2	22	92	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH7_8.8-9	HLA 2007	7	0.2	18	86	320	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH8_0.1-0.2	HLA 2007	<1	<0.1	19	81	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH8_6-6.5	HLA 2007	3	0.1	7	11	79	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH10_4.3-4.5	HLA 2007	4	0.2	15	50	120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH10_7-7.5	HLA 2007	10	0.5	12	77	470	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH13_0.3-0.4	HLA 2007	8	0.4	8	85	220	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1.55	0	<0.05	-
BH13_7.6-8	HLA 2007	2	<0.1	5	13	79	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC062_0.1-0.2	JBS&G 2014	7.8	1.3	18	210	470	-	-	<0.05	<0.05	<0.05	-	-	-	<0.05	-	<0.05	-	-	-	-	-	-	-	-	-	-	18.9	0	<0.05	-
QC05	JBS&G 2014	4.1	1.3	27	210	470	-	-	<0.05	<0.05	<0.05	-	-	-	<0.05	-	<0.05	-	-	-	-	-	-	-	-	-	-	14.85	0	<0.05	-
QC05-A	JBS&G 2014	4	0.6	16	140	260	<1	<1	<1	<1	<1	-	-	-	<1	-	-	-	-	-	-	-	-	-	-	-	-	26.25	0	<0.1	-
FC062_3.8-4	JBS&G 2014	2.6	0.4	7	59	120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<3.75	-	-	-
FC063_1.6-1.8	JBS&G 2014	9.7	1.2	20	190	400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	94.45	-	-	-
FC063_3.8-4	JBS&G 2014	3.5	0.6	10	89	190	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.45	-	-	-
FC064_0.1-0.2	JBS&G 2014	41	5.3	26	160	350	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.75	0	<0.05	-
FC064_0.5-0.7	JBS&G 2014	<2	0.4	<5	50	41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<5.25	-	-	-
FC064_3.1-3.3	JBS&G 2014	33	23	120	830	5,900	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	-	-	-
FC064_4.7-4.9	JBS&G 2014	11	1	13	750	75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.2	-	-	-
FC065_0.1-0.2	JBS&G 2014	<2	0.7	25	65	140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.75	0	<0.05	-
FC065_0.5-0.7	JBS&G 2014	4.5	3.5	11	67,000	1,800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	-	-	-
FC065_1-1.2	JBS&G 2014	<2	1.3	18	77	460	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	390.8	0	<0.05	-
FC065_2.3-2.5	JBS&G 2014	3	<0.4	6.6	130	230	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.4	0	<0.05	-
FC065_3-3.2	JBS&G 2014	15	<0.4	<5	77	140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.15	-	-	-
FC066_0.5-0.7	JBS&G 2014	3.9	0.8	11	190	310	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.9	-	-	-
FC066_1.5-1.7	JBS&G 2014	3.8	3.6	12	170	300	-	-	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	-	-	-	-	0.25	-	-	-
FC066_2.5-2.7	JBS&G 2014	6.6	1.3	11	140	180	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.35	0	<0.05	-
FC066_3.1-3.3	JBS&G 2014	5.8	<0.4	<5	280	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<3.75	0	<0.05	-
FC067_0.5-0.6	JBS&G 2014	4.5	0.6	6.4	250	320	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23.75	-	-	-
FC067_0.9-1.1	JBS&G 2014	<2	<0.4	<5	45	43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<3.75	-	-	-
FC067_3.1-3.3	JBS&G 2014	<2	0.4	<5	72	180	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<5.25	0	<0.05	-
FC068_0.1-0.2	JBS&G 2014	4.3	2.2	20	450	350	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16.3	-	-	-
FC068_1.1-1.3	JBS&G 2014	5.2	3.4	13	190	430	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.1	-	-	-
FC068_4.8-5	JBS&G 2014	2.6	0.8	5.8	82	340	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.7	0	<0.05	-
FC069_6-6.1	JBS&G 2014	7.1	<0.4	39	24	99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	248.9	-	-	-
FC069_8-8.1	JBS&G 2014	<2	<0.4	130	22	51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	38.75	-	-	-
FC070_0.1-0.2	JBS&G 2014	5.2	0.7	7.8	140	350	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36.45	0	<0.05	-
FC070_0.5-0.6	JBS&G 2014	4.8	0.6	8.2	150	260	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23.35	-	-	-
FC070_6-6.1	JBS&G 2014	3	<0.4	15	<5	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<3.75	-	-	-
QC18	JBS&G 2014	<2	<0.4	25	<5	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<3.75	-	-	-
QC18-A	JBS&G 2014	<4	<0.4	16	2	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.775	-	-	-
FC071_0.5-0.8	JBS&G 2014	10	0.4	8.4	120	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	104.7	0	<0.05	-
FC071_2.8-3	JBS&G 2014	5.8	<0.4	<5	19	780	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<5.25	0	<0.05	-
FC071_4.8-5	JBS&G 2014	46	0.6	6.8	95	520	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	58.45	-	-	-
FC071_6-6.1	JBS&G 2014	6.7	<0.4	38	41	160	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	44.8	-	-	-
FC071_8-8.1	JBS&G 2014	4.3	<0.4	42	18	97	-	-	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	-	-	-	-	0.25	-	-	-

Table A - Soil
Project Number: 69329
Project Name: Stage 3, GSTC - 960A Bourke Street, Zetland NSW

			Metals & Metalloi				Chlorinated Benzenes						Trihalomethanes				Organic Sulfur Compounds	Inorganics			Particle Size			Moisture Content	Other							
		Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	1,2,3-trichlorobenzene	1,2,4-trichlorobenzene	1,2-Dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Chlorobenzene	Dibromochloromethane	Chloroform	Tribromomethane	Bromodichloromethane	Carbon disulfide	Electrical Conductivity (Non Compensated)	Moisture	pH 1:5 soil:water1:5 soil:water	% Clay*	<2mm Fraction	>2mm Fraction	Moisture Content	Moisture Content (dried @ 103°C)	Analysed Material	Asphalt	Extraneous Material	Low Molecular Weight PAHss	Scheduled chemicals	Total DDT	Total Organic Carbon_
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	dS/cm	%	ph	%	%	%	%	%	%	%	%	mg/kg	mg/kg	mg/kg	mg/kg
EQL		2	0.4	1	1	1	1	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5				1	0.005	0.005	0.1	1	0.1		0.1				100
NSW 2014 General Solid Waste CT1 (No Leaching)		100	20	100		100			86		150	2,000		120																50		
NSW 2014 General Solid Waste SCC1 (with leached)		500	100	1,900		1,500			155		270	3,600		216																50		
NSW 2014 Restricted Solid Waste CT2 (No Leaching)		400	80	400		400			344		600	8,000		480																50		
NSW 2014 Restricted Solid Waste SCC2 (with leached)		2,000	400	7,600		6,000			620		1,080	14,400		864																50		
Field ID	**Date**																															
FC072_0.4-0.6	JBS&G 2014	<2	<0.4	<5	<5	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<5.25	0	<0.05	-
FC072_1.5-0.7	JBS&G 2014	<2	<0.4	8.3	<5	6.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.95	0	<0.05	-
FC072_2.9-3.1	JBS&G 2014	<2	<0.4	<5	5.4	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<3.75	-	-	-
FC072_6-6.1	JBS&G 2014	5.2	<0.4	33	22	110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.6	-	-	-
FC053_0-0.1	JBS&G 2014	4.3	0.4	9.9	63	130	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.9	0	<0.05	-
FC053_2-2.1	JBS&G 2014	9	0.5	10	66	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	230.8	-	-	-
FC054_0.5	JBS&G 2014	4.5	0.8	7	38	110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	0	<0.05	-
FC054_1-1.1	JBS&G 2014	3.9	<0.4	5.9	23	55	-	-	-	-	-	-	-	-	-	-	-	1.2	-	8.4	-	-	-	-	-	-	-	14.35	-	-	-
FC055_0-0.1	JBS&G 2014	22	2.8	14	200	8,600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	38.75	0	<0.05	-
QC01	JBS&G 2014	11	1.2	26	370	780	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	83.85	0	<0.05	-
QC01-A	JBS&G 2014	9	1.4	12	100	1,500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.2	0	<0.1	-
FC055_1-1.1	JBS&G 2014	5	0.7	7.8	78	470	-	-	-	-	-	-	-	-	-	-	-	0.87	-	8.5	-	-	-	-	-	-	-	649.7	-	-	-
FC055_4-4.1	JBS&G 2014	11	1.6	26	2,700	1,100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	173.1	0	<0.05	-
FC056_2-2.1	JBS&G 2014	12	<0.4	<5	110	250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.65	-	-	-
FC056_3-3.1	JBS&G 2014	12	0.4	10	32	90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.7	-	-	-
FC057_0-0.1	JBS&G 2014	<2	1.6	33	230	340	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	142.2	0	<0.05	-
FC057_2-2.1	JBS&G 2014	<2	1.3	11	280	460	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.9	-	-	-
FC058_0.5-0.6	JBS&G 2014	<2	1.8	8	110	240	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23.65	0	<0.05	-
QC02	JBS&G 2014	3.8	1.6	9.1	120	500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16.7	0	<0.05	-
QC02-A	JBS&G 2014	8	0.5	10	93	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	41.5	0	<0.1	-
FC058_5-5.1	JBS&G 2014	<2	3	14	170	550	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20.15	-	-	-
FC059_0.5-0.6	JBS&G 2014	<2	1.9	19	120	570	-	-	-	-	-	-	-	-	-	-	-	1.3	-	8.2	-	-	-	-	-	-	-	45	-	-	-
FC059_1-1.1	JBS&G 2014	30	3.8	46	3,100	2,400	-	-	-	-	-	-	-	-	-	-	-	0.92	-	8.4	-	-	-	-	-	-	-	177.5	-	-	-
FC060_1-1.1	JBS&G 2014	<2	4.9	30	240	680	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.8	-	-	-
FC060_2-2.1	JBS&G 2014	4.6	3.1	47	760	1,600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	83.4	0	<0.05	-
FC060_3-3.1	JBS&G 2014	8.2	3.3	17	1,000	700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	32.3	-	-	-
FC061_1-1.1	JBS&G 2014	<2	1.7	13	170	380	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	54.7	0	<0.05	-
FC061_3-3.1	JBS&G 2014	<2	5.6	26	220	490	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35.05	-	-	-
BH500_0.5	JBS&G 2022	<2	<0.4	5.5	30	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.0	-	-	-	-	-	-
BH500_2.0	JBS&G 2022	8.8	<0.4	10	34	36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-	-	-	-	-	-
QA20220217_PG6	JBS&G 2022	8.5	<0.4	11	43	39	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-	-	-	-	-	-
QC20220217-PG6	JBS&G 2022	9	<0.4	6	31	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-	-	-	-	-	-	-
BH500_3.5	JBS&G 2022	11	<0.4	21	18	120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	-	-	-	-	-	-
BH500_5.0	JBS&G 2022	4.2	<0.4	19	14	130	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	-	-	-	-	-	-
BH500_6.5	JBS&G 2022	5.6	<0.4	17	29	48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	-	-	-	-	-	-
BH500_8.0	JBS&G 2022	7.8	<0.4	13	36	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19	-	-	-	-	-	-
BH500_9.5	JBS&G 2022	6.7	<0.4	12	30	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	-	-	-	-	-	-
BH500_11.0	JBS&G 2022	10	<0.4	12	26	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	-	-	-	-	-	-
BH501_1.0	JBS&G 2022	8.0	0.6	19	110	320	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.6	-	-	-	-	-	-
BH501_2.5	JBS&G 2022	24	0.6	35	250	340	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	-	-	-	-	-	-
BH501_4.0	JBS&G 2022	11	0.6	23	130	320	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	-	-	-	-	-	-
QA20220217_PG5	JBS&G 2022	8.6	0.4	19	140	260	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	-	-	-	-	-	-
QC20220217-PG5	JBS&G 2022	6	<0.4	12	70	180	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	-	-	-	-	-	-	-
BH501_5.5	JBS&G 2022	11	0.6	25	630	500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	-	-	-	-	-	-
BH501_7.0	JBS&G 2022	12	0.7	32	77	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22	-	-	-	-	-	-
BH501_8.5	JBS&G 2022	15	<0.4	33	67	210	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22	-	-	-	-	-	-
BH501_10.0	JBS&G 2022	14	<0.4	24	45	170	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	-	-	-	-	-	-
BH501_11.5	JBS&G 2022	8.7	<0.4	13	7.0	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	-	-	-	-	-	-
BH502_1.0	JBS&G 2022	13	0.5	23	200	280	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	-	-	-	-	-	-
BH502_2.0	JBS&G 2022	8.3	<0.4	20	94	170	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.8	-	-	-	-	-	-
BH502_3.5	JBS&G 2022	6.4	<0.4	20	310	120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.6	-	-	-	-	-	-
BH502_5.0	JBS&G 2022	4.7	<0.4	13	110	310	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23	-	-	-	-	-	-
BH502_6.5	JBS&G 2022	4.9	<0.4	13	110	360	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24	-	-	-	-	-	-
BH502_8.0	JBS&G 2022	5.5	<0.4	18	100	250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19	-	-	-	-	-	-
BH502_9.5	JBS&G 2022	4.9	<0.4	19	88	220	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	-	-	-	-	-	-
BH502_11.0	JBS&G 2022	12	<0.4	25	23	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	-	-	-	-	-	-
BH502_12.5	JBS&G 2022	6.0	<0.4	14	50	96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	-	-	-	-	-	-

Table A - Soil
Project Number: 69329
Project Name: Stage 3, GSTC - 960A Bourke Street, Zetland NSW

		Metals & Metalloi					Chlorinated Benzenes						Trihalomethanes				Organic Sulfur Compounds	Inorganics			Particle Size			Moisture Content	Other											
		Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	1,2,3-trichlorobenzene	1,2,4-trichlorobenzene	1,2-Dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Chlorobenzene	Dibromochloromethane	Chloroform	Tribromomethane	Bromodichloromethane	Carbon disulfide	Electrical Conductivity (Non Compensated)	Moisture	pH 1:5 soil:water1:5 soil:water	% Clay*	<2mm Fraction	>2mm Fraction	Moisture Content	Moisture Content (dried @ 103°C)	Analysed Material	Asphalt	Extraneous Material	Low Molecular Weight PAHss	Scheduled chemicals	Total DDT	Total Organic Carbon_				
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	dS/cm	%	ph	%	%	%	%	%	%	%	%	mg/kg	mg/kg	mg/kg				
EQL		2	0.4	1	1	1	1	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5				1	0.005	0.005	0.1	1	0.1		0.1				100				
NSW 2014 General Solid Waste CT1 (No Leaching)		100	20	100		100			86		150	2,000		120																50					
NSW 2014 General Solid Waste SCC1 (with leached)		500	100	1,900		1,500			155		270	3,600		216																50					
NSW 2014 Restricted Solid Waste CT2 (No Leaching)		400	80	400		400			344		600	8,000		480																50					
NSW 2014 Restricted Solid Waste SCC2 (with leached)		2,000	400	7,600		6,000			620		1,080	14,400		864																50					
Field ID	**Date**																																		
BH503_0.5	JBS&G 2022	2.2	<0.4	12	27	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.5	-	-	-	-	-	-	-			
BH503_2.0	JBS&G 2022	8.0	0.8	18	440	540	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	-	-	-	-	-	-	-			
BH503_3.5	JBS&G 2022	12	1.3	26	440	1,600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	-	-	-	-	-	-	-			
BH503_5.0	JBS&G 2022	23	3.0	62	2,600	2,300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	-	-	-	-	-	-	-			
BH503_6.5	JBS&G 2022	11	1.2	36	970	630	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26	-	-	-	-	-	-	-			
BH503_8.0	JBS&G 2022	20	0.5	27	200	1,400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	-	-	-	-	-	-	-			
BH503_9.5	JBS&G 2022	16	0.7	34	880	820	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	-	-	-	-	-	-	-			
BH503_11.0	JBS&G 2022	9.4	0.7	21	220	720	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21	-	-	-	-	-	-	-			
BH503_12.5	JBS&G 2022	6.2	<0.4	17	26	58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	-	-	-	-	-	-	-			
BH504_0.5	JBS&G 2022	3.8	<0.4	28	71	51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	-	-	-	-	-	-	-			
QA20220217_PG2	JBS&G 2022	3.6	0.4	16	66	220	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.3	-	-	-	-	-	-	-			
QC20220217-PG2	JBS&G 2022	<4	0.5	18	170	210	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.9	-	-	-	-	-	-	-	-			
BH504_2.0	JBS&G 2022	3.4	<0.4	13	65	230	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-	-	-	-	-	-	-			
BH504_3.5	JBS&G 2022	4.4	0.6	38	130	260	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-	-	-	-	-	-	-			
QA20220217_PG3	JBS&G 2022	3.8	0.5	18	130	280	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	-	-	-	-	-	-	-			
QC20220217-PG3	JBS&G 2022	<4	<0.4	14	110	170	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	-	-	-	-	-	-	-	-			
BH504_4.5	JBS&G 2022	6.4	1.2	24	210	470	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21	-	-	-	-	-	-	-			
BH504_6.0	JBS&G 2022	12	1.5	23	360	840	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22	-	-	-	-	-	-	-			
BH504_7.5	JBS&G 2022	32	1.3	41	2,900	2,800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24	-	-	-	-	-	-	-			
BH504_9.0	JBS&G 2022	14	0.6	21	420	500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19	-	-	-	-	-	-	-			
BH504_10.5	JBS&G 2022	19	0.6	25	250	560	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26	-	-	-	-	-	-	-			
BH504_12.0	JBS&G 2022	20	0.5	180	570	3,500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19	-	-	-	-	-	-	-			
BH505_1.5	JBS&G 2022	7.6	0.8	16	100	270	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.5	-	-	-	-	-	-	-			
BH505_3.0	JBS&G 2022	11	1.1	22	160	430	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	-	-	-	-	-	-	-			
QA20220217_PG4	JBS&G 2022	9.5	0.9	26	150	410	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	-	-	-	-	-	-	-			
QC20220217-PG4	JBS&G 2022	6	0.8	15	100	290	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.3	-	-	-	-	-	-	-	-			
BH505_4.5	JBS&G 2022	10	36	24	130	280	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.3	-	-	-	-	-	-	-			
BH505_6.0	JBS&G 2022	7.4	1.0	27	190	2,300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.6	-	-	-	-	-	-	-			
BH505_7.5	JBS&G 2022	7.4	1.2	36	140	390	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	-	-	-	-	-	-	-			
BH505_9.0	JBS&G 2022	8.1	1.2	31	130	470	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21	-	-	-	-	-	-	-			
BH505_10.5	JBS&G 2022	9.4	1.0	31	130	400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22	-	-	-	-	-	-	-			
BH505_11.5	JBS&G 2022	8.5	1.3	22	140	360	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19	-	-	-	-	-	-	-			
BH506_1.0	JBS&G 2022	6.6	0.5	27	110	240	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.6	-	-	-	-	-	-	-			
BH506_2.5	JBS&G 2022	7.6	2.3	81	4,200	640	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	-	-	-	-	-	-	-			
BH506_4.0	JBS&G 2022	6.1	1.1	91	150	340	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	-	-	-	-	-	-	-			
BH506_5.0	JBS&G 2022	5.0	0.9	25	100	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	-	-	-	-	-	-	-			
BH506_6.5	JBS&G 2022	5.2	0.8	22	170	240	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	-	-	-	-	-	-	-			
BH506_8.0	JBS&G 2022	10	13	9.4	48	180	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24	-	-	-	-	-	-	-			
BH506_9.0	JBS&G 2022	12	15	18	450	780	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20	-	-	-	-	-	-	-			
BH507_0.5	JBS&G 2022	<2	<0.4	27	39	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.0	-	-	-	-	-	-	-			
BH507_1.5	JBS&G 2022	6.3	1.2	26	68	210	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.4	-	-	-	-	-	-	-			
QA20220217_PG1	JBS&G 2022	4.6	0.7	25	90	240	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.3	-	-	-	-	-	-	-			
QC20220217-PG1	JBS&G 2022	4	0.6	14	81	210	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.7	-	-	-	-	-	-	-	-			
BH507_3.0	JBS&G 2022	4.1	0.5	13	59	140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.5	-	-	-	-	-	-	-			
BH507_4.5	JBS&G 2022	3.4	0.5	16	64	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.0	-	-	-	-	-	-	-			
BH507_6.0	JBS&G 2022	4.7	0.6	22	100	250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.8	-	-	-	-	-	-	-			
BH507_7.5	JBS&G 2022	4.1	<0.4	12	69	290	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27	-	-	-	-	-	-	-			
BH507_9.0	JBS&G 2022	3.8	0.4	10	33	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20	-	-	-	-	-	-	-			
BH507_10.5	JBS&G 2022	3.8	<0.4	14	40	210	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19	-	-	-	-	-	-	-			
BH507_12.0	JBS&G 2022	6.0	0.5	16	68	280	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	-	-	-	-	-	-	-			
BH508_0.5	JBS&G 2022	2.7	<0.4	7.2	84	26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.0	-	-	-	-	-	-	-			
BH508_2.0	JBS&G 2022	5.3	<0.4	6.9	83	110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	-	-	-	-	-	-	-			
BH508_3.5	JBS&G 2022	5.4	<0.4	13	110	180	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.3	-	-	-	-	-	-	-			
BH508_4.5	JBS&G 2022	6.6	<0.4	14	110	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.6	-	-	-	-	-	-	-			
BH508_6.0	JBS&G 2022	<2	<0.4	<5	<5	9.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	-	-	-	-	-	-	-			
BH508_7.0	JBS&G 2022	<2	<0.4	<5	9.4	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	-	-	-	-	-	-	-			
BH509_0.5	JBS&G 2022	<2	<0.4	<5	69	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.1	-	-	-	-	-	-	-			

Table A - Soil
Project Number: 69329
Project Name: Stage 3, GSTC - 960A Bourke Street, Zetland NSW

			Metals & Metalloi				Chlorinated Benzenes						Trihalomethanes				Organic Sulfur Compounds	Inorganics			Particle Size			Moisture Content	Other							
		Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	1,2,3-trichlorobenzene	1,2,4-trichlorobenzene	1,2-Dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Chlorobenzene	Dibromochloromethane	Chloroform	Tribromomethane	Bromodichloromethane	Carbon disulfide	Electrical Conductivity (Non Compensated)	Moisture	pH 1:5 soil:water1:5 soil:water	% Clay*	<2mm Fraction	>2mm Fraction	Moisture Content	Moisture Content (dried @ 103°C)	Analysed Material	Asphalt	Extraneous Material	Low Molecular Weight PAHss	Scheduled chemicals	Total DDT	Total Organic Carbon_
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	dS/cm	%	ph	%	%	%	%	%	%	%	%	mg/kg	mg/kg	mg/kg	mg/kg
EQL		2	0.4	1	1	1	1	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5				1	0.005	0.005	0.1	1	0.1		0.1				100
NSW 2014 General Solid Waste CT1 (No Leaching)		100	20	100		100			86		150	2,000		120																50		
NSW 2014 General Solid Waste SCC1 (with leached)		500	100	1,900		1,500			155		270	3,600		216																50		
NSW 2014 Restricted Solid Waste CT2 (No Leaching)		400	80	400		400			344		600	8,000		480																50		
NSW 2014 Restricted Solid Waste SCC2 (with leached)		2,000	400	7,600		6,000			620		1,080	14,400		864																50		
Field ID	**Date**																															
BH509_2.0	JBS&G 2022	7.3	1.3	14	110	370	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.6	-	-	-	-	-	-	-
BH509_2.5	JBS&G 2022	6.4	3.4	15	110	280	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.9	-	-	-	-	-	-	-
QA20220218PG3	JBS&G 2022	6.8	3.3	16	120	340	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.3	-	-	-	-	-	-	-
QC20220218-PG3	JBS&G 2022	7	2	14	110	250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	-	-	-	-	-	-	-	-
BH509_3.5	JBS&G 2022	14	1.0	33	100	1,200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.9	-	-	-	-	-	-	-
BH509_5.0	JBS&G 2022	14	0.9	21	100	320	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.1	-	-	-	-	-	-	-
BH509_6.5	JBS&G 2022	11	12	44	280	570	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19	-	-	-	-	-	-	-
BH509_7.5	JBS&G 2022	6.7	18	18	350	510	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20	-	-	-	-	-	-	-
BH510_1.0	JBS&G 2022	18	0.5	18	81	160	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.0	-	-	-	-	-	-	-
BH510_2.5	JBS&G 2022	14	1.2	25	160	400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-	-	-	-	-	-	-
BH510_4.0	JBS&G 2022	9.0	<0.4	21	36	110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	-	-	-	-	-	-	-
BH510_5.5	JBS&G 2022	15	1.2	57	730	470	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	-	-	-	-	-	-	-
BH510_7.0	JBS&G 2022	11	0.8	35	360	380	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	-	-	-	-	-	-	-
BH510_8.0	JBS&G 2022	6.8	0.5	24	210	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	-	-	-	-	-	-	-
BH511_0.5	JBS&G 2022	<2	<0.4	5.6	44	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.0	-	-	-	-	-	-	-
BH511_2.0	JBS&G 2022	7.7	0.7	13	29	170	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	-	-	-	-	-	-	-
BH511_3.5	JBS&G 2022	10.0	1.0	30	110	430	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.7	-	-	-	-	-	-	-
BH511_5.0	JBS&G 2022	6.8	0.4	28	61	270	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.6	-	-	-	-	-	-	-
BH511_6.5	JBS&G 2022	7.2	<0.4	19	170	560	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-	-	-	-	-	-	-
BH511_8.0	JBS&G 2022	5.1	<0.4	11	96	360	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	-	-	-	-	-	-	-
BH512_0.5	JBS&G 2022	<2	<0.4	6.5	28	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.4	-	-	-	-	-	-	-
BH512_2.0	JBS&G 2022	9.0	<0.4	13	46	180	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-	-	-	-	-	-	-
QA20220218PG1	JBS&G 2022	10	<0.4	12	53	110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	-	-	-	-	-	-	-
QC20220218-PG1	JBS&G 2022	<4	<0.4	8	36	76	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.9	-	-	-	-	-	-	-	-
BH512_2.5	JBS&G 2022	47	<0.4	26	180	720	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	-	-	-	-	-	-	-
BH512_3.5	JBS&G 2022	570	0.9	23	1,100	5,100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.5	-	-	-	-	-	-	-
BH512_4.5	JBS&G 2022	77	0.6	16	170	1,100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.1	-	-	-	-	-	-	-
BH512_5.5	JBS&G 2022	38	<0.4	16	95	360	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.1	-	-	-	-	-	-	-

Table B - TCLP Results
Project Number: 69329
Project Name:Stage 3, GSTC, 960A Bourke Street, Zetland, NSW

	Metals & Metalloids							
	Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	0.001	0.0001	0.001	0.001	0.001	0.00005	0.001	0.001
NSW 2014 General Solid Waste TCLP1 (leached)	5	1	5		5	0.2	2	
NSW 2014 Restricted Solid Waste TCLP2 (leached)	20	4	20		20	0.8	8	

Field ID	Report	Lab Report Number							
BH14_2-2.1	Coffey 2011	Coffey 2011	-	-	-	-	-	-	-	-
FC053_0-0.1	JBS&G 2014	404625	<0.000010	<0.000005	<0.00001	0.00001	0.00007	<0.000001	0.00002	0.00066
FC053_2-2.1	JBS&G 2014	404625	-	-	-	-	-	-	-	-
FC055_0-0.1	JBS&G 2014	404625	<0.000010	<0.000005	<0.00001	<0.000010	0.00045	<0.000001	<0.000010	0.0016
QC01	JBS&G 2014	404625	-	-	-	-	-	-	-	-
FC055_1-1.1	JBS&G 2014	404625	<0.000010	0.000007	<0.00001	<0.000010	0.00018	0.000012	<0.000010	0.00053
FC055_4-4.1	JBS&G 2014	404625	<0.000010	<0.000005	<0.00001	0.00043	0.00048	<0.000001	0.00016	0.0038
FC057_0-0.1	JBS&G 2014	404576	-	-	-	-	-	-	-	-
FC058_0.5-0.6	JBS&G 2014	404576	-	-	-	-	-	-	-	-
QC02	JBS&G 2014	404576	<0.000010	<0.000005	<0.00001	0.00005	0.00038	<0.000001	0.00004	0.0026
FC058_5-5.1	JBS&G 2014	404576	<0.000010	0.000009	0.00001	0.00005	0.00017	<0.000001	0.00004	0.0023
FC059_0.5-0.6	JBS&G 2014	404576	<0.000010	0.000009	<0.00001	0.00003	0.00016	0.000004	0.00003	0.0013
FC059_1-1.1	JBS&G 2014	404576	<0.000010	0.000009	<0.00001	0.00027	0.00061	<0.000001	0.00009	0.0084
FC060_2-2.1	JBS&G 2014	404576	<0.000010	0.000006	<0.00001	0.00007	0.00025	0.000011	0.00002	0.002
FC060_3-3.1	JBS&G 2014	404576	<0.000010	0.000009	<0.00001	0.00012	0.00036	0.000005	0.00002	0.0013
FC061_1-1.1	JBS&G 2014	404576	0.00001	0.000007	0.00002	0.00002	0.00075	0.000007	0.00004	0.0022
FC061_3-3.1	JBS&G 2014	404576	<0.000010	0.000013	<0.00001	<0.00001	0.00003	0.000003	<0.00001	0.00035
FC062_0.1-0.2	JBS&G 2014	406078	<0.000010	0.000007	<0.00005	0.00006	0.00035	<0.000001	<0.00005	0.00097
FC063_1.6-1.8	JBS&G 2014	406078	-	-	-	-	-	-	-	-
FC064_0.1-0.2	JBS&G 2014	406267	<0.000010	0.000006	<0.00005	<0.00005	0.00002	<0.000001	<0.00005	0.001
FC064_3.1-3.3	JBS&G 2014	406267	<0.000010	0.00019	<0.00005	0.01	0.0097	<0.000001	0.00029	0.049
FC065_0.5-0.7	JBS&G 2014	406267	<0.000010	0.00001	<0.00005	0.0001	0.00043	<0.000001	<0.00005	0.003
FC065_1-1.2	JBS&G 2014	406267	<0.000010	0.000014	<0.00005	<0.00005	0.00006	<0.000001	<0.00005	0.00061
FC065_2.3-2.5	JBS&G 2014	406267	<0.000010	<0.000005	<0.00005	<0.00005	0.0001	<0.000001	<0.00005	0.00034
FC066_0.5-0.7	JBS&G 2014	406267	<0.000010	0.000007	<0.00005	<0.00005	0.00004	<0.000001	<0.00005	0.00044
FC066_1.5-1.7	JBS&G 2014	406267	<0.000010	0.000051	<0.00005	0.00009	0.00012	<0.000001	<0.00005	0.0014
FC066_2.5-2.7	JBS&G 2014	406267	<0.000010	0.000009	<0.00005	0.00005	0.0001	<0.000001	<0.00005	0.00047
FC067_0.5-0.6	JBS&G 2014	406267	<0.000010	<0.000005	<0.00005	0.00012	0.00002	<0.000001	<0.00005	0.0019
FC068_0.1-0.2	JBS&G 2014	406267	<0.000010	0.000011	<0.00005	<0.00005	0.00007	<0.000001	<0.00005	0.00049
FC068_1.1-1.3	JBS&G 2014	406267	<0.000010	0.000042	<0.00005	0.00009	0.00022	<0.000001	<0.00005	0.0031
FC068_4.8-5	JBS&G 2014	406267	<0.000010	0.000005	<0.00005	0.00006	0.0013	<0.000001	<0.00005	0.00075
FC069_6-6.1	JBS&G 2014	406432	-	-	-	-	-	-	-	-
FC069_8-8.1	JBS&G 2014	406432	-	-	-	-	-	-	-	-
FC070_0.1-0.2	JBS&G 2014	406249	<0.000010	<0.000005	<0.00005	0.00006	0.00005	<0.000001	<0.00005	0.0013
FC070_0.5-0.6	JBS&G 2014	406249	<0.000010	<0.000005	<0.00005	0.00008	0.0012	<0.000001	<0.00005	0.0017
FC071_0.5-0.8	JBS&G 2014	406249	<0.000010	<0.000005	<0.00005	<0.00005	0.00019	<0.000001	<0.00005	0.00034
FC071_2.8-3	JBS&G 2014	406249	<0.000010	<0.000005	<0.00005	<0.00005	0.0028	<0.000001	<0.00005	0.00052
FC071_4.8-5	JBS&G 2014	406249	<0.000010	<0.000005	<0.00005	<0.00005	0.00073	<0.000001	<0.00005	0.00076
FC071_6-6.1	JBS&G 2014	406432	<0.000010	<0.000005	<0.00005	<0.00005	0.00026	<0.000001	<0.00005	0.00037
FC072_6-6.1	JBS&G 2014	406432	-	-	-	-	0.00001	-	-	-

Table B - TCLP Results
Project Number: 69329
Project Name:Stage 3, GSTC, 960A Bourke Street, Zetland, NSW

			PAH																	Other
			Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b+j)fluoranthene	Benzo(g,h,i)perylene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	Carcinogenic PAHs (as B(a)P TPE)	PAHs (Sum of total)	Carcinogenic PAHs as B(a)P TEQ	Low Molecular Weight PAHss
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL			0.00001	0.00001	0.00001	0.00001	0.0001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001		0.00001		
NSW 2014 General Solid Waste TCLP1 (leached)							0.04														
NSW 2014 Restricted Solid Waste TCLP2 (leached)							0.16														
Field ID	**Report**	**Lab Report Number**																			
BH14_2-2.1	Coffey 2011	Coffey 2011	-	-	-	-	<0.0005	-	-	-	-	-	-	-	-	-	-	-	-	0	-
FC053_0-0.1	JBS&G 2014	404625	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC053_2-2.1	JBS&G 2014	404625	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	0.000001	<0.000001	<0.000001	0.00000121	-	0	0.000008
FC055_0-0.1	JBS&G 2014	404625	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC01	JBS&G 2014	404625	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	0.000004	<0.000001	0.000001	0.00000121	-	0	0.000012
FC055_1-1.1	JBS&G 2014	404625	<0.000001	0.000007	0.000006	0.000052	0.000049	0.000044	0.000033	0.000044	0.000014	0.000056	<0.000001	0.000031	0.000005	0.000006	0.000087	0.00008027	-	0.00008027	0.000429
FC055_4-4.1	JBS&G 2014	404625	<0.000001	<0.000001	<0.000001	0.000001	0.000001	0.000001	0.000001	0.000002	<0.000001	0.000002	<0.000001	0.000001	<0.000001	<0.000001	0.000003	0.00000193	-	0.00000143	0.0000155
FC057_0-0.1	JBS&G 2014	404576	0.000002	0.000001	<0.000001	<0.000001	<0.000001	<0.000001	0.000001	<0.000001	<0.000001	0.000002	0.000001	<0.000001	0.000002	0.000002	0.000002	0.000001215	-	0.00000001	0.0000165
FC058_0.5-0.6	JBS&G 2014	404576	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	0.00000121	-	0	<0.0000075
QC02	JBS&G 2014	404576	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC058_5-5.1	JBS&G 2014	404576	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC059_0.5-0.6	JBS&G 2014	404576	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	0.00000121	-	0	<0.0000075
FC059_1-1.1	JBS&G 2014	404576	0.000001	<0.000001	0.000002	0.000008	0.000007	0.000006	0.000004	0.000009	0.000001	0.000015	<0.000001	0.000003	0.000008	0.000004	0.000018	0.00001073	-	0.00001073	0.00009
FC060_2-2.1	JBS&G 2014	404576	0.000002	0.000001	<0.000001	0.000001	0.000002	0.000002	0.000002	0.000002	<0.000001	0.000002	0.000001	0.000001	0.000006	0.000001	0.000003	0.00000304	-	0.00000254	0.000026
FC060_3-3.1	JBS&G 2014	404576	0.000004	<0.000001	0.000001	0.000001	0.000002	0.000002	0.000002	0.000002	<0.000001	0.000001	0.000002	0.000001	0.000004	0.000002	0.000002	0.00000304	-	0.00000254	0.000026
FC061_1-1.1	JBS&G 2014	404576	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	0.00000121	-	0	<0.0000075
FC061_3-3.1	JBS&G 2014	404576	0.000002	<0.000001	0.000002	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	0.000001	0.000001	<0.000001	0.000002	0.000003	0.000001	0.00000121	-	0	0.000016
FC062_0.1-0.2	JBS&G 2014	406078	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC063_1.6-1.8	JBS&G 2014	406078	0.000002	0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	0.000001	<0.000001	0.000004	0.000001	<0.000001	0.00000121	-	0	0.000014
FC064_0.1-0.2	JBS&G 2014	406267	0.000002	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	0.000001	<0.000001	0.000002	<0.000001	<0.000001	0.00000121	-	0	0.000011
FC064_3.1-3.3	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC065_0.5-0.7	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC065_1-1.2	JBS&G 2014	406267	0.000002	0.000004	0.000002	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	0.000002	0.000004	<0.000001	0.000004	0.000007	0.000001	0.00000121	-	0	0.0000295
FC065_2.3-2.5	JBS&G 2014	406267	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	0.000002	0.000001	<0.000001	0.00000121	-	0	0.0000095
FC066_0.5-0.7	JBS&G 2014	406267	0.000004	0.000001	0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	0.000003	<0.000001	0.000002	0.000009	<0.000001	0.00000121	-	0	0.0000245
FC066_1.5-1.7	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC066_2.5-2.7	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC067_0.5-0.6	JBS&G 2014	406267	0.000002	0.000003	0.000002	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	0.000001	0.000005	<0.000001	0.000045	0.00001	0.000001	0.00000121	-	0	0.0000725
FC068_0.1-0.2	JBS&G 2014	406267	0.000002	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	0.000002	<0.000001	0.000003	0.000002	<0.000001	0.00000121	-	0	0.0000145
FC068_1.1-1.3	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC068_4.8-5	JBS&G 2014	406267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC069_6-6.1	JBS&G 2014	406432	0.000003	0.000001	0.000003	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	0.000005	0.000003	<0.000001	0.000004	0.000014	0.000004	0.00000121	-	0	0.0000405
FC069_8-8.1	JBS&G 2014	406432	0.000002	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	0.000001	<0.000001	<0.000001	0.000004	<0.000001	0.00000121	-	0	0.000013
FC070_0.1-0.2	JBS&G 2014	406249	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	0.000003	<0.000001	<0.000001	0.000017	0.000003	0.000003	0.00000121	-	0	0.0000315
FC070_0.5-0.6	JBS&G 2014	406249	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	0.00000121	-	0	<0.0000075
FC071_0.5-0.8	JBS&G 2014	406249	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	0.000002	<0.000001	<0.000001	0.000002	0.000003	0.000002	0.00000121	-	0	0.0000145
FC071_2.8-3	JBS&G 2014	406249	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FC071_4.8-5	JBS&G 2014	406249	0.000002	0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	0.000002	0.000002	<0.000001	0.000002	0.000003	0.000001	0.00000121	-	0	0.000017
FC071_6-6.1	JBS&G 2014	406432	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	<0.000001	0.00000121	-	0	<0.0000075
FC072_6-6.1	JBS&G 2014	406432	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table C - Asbestos
Project Number: 69329
Project Name: Stage 3, GSTC, 960A Bourke Street, Zetland NSW

					Asbestos - Laboratory Analysis										Asbestos - Field Quantification					
					Approximate Sample Mass	Mass ACM	Mass Asbestos in ACM	Asbestos from ACM in Soil	Mass FA	Mass Asbestos in FA	Mass AF	Mass asbestos in AF	Asbestos from FA & AF in Soil	Mass Asbestos in FA & AF	Quantification Soil Volume	Assumed Bulk Density	ACM Dimensions	Sample Weight	ACM Weight	ACM Quantification (%w/w)
					g	g	g	% (w/w)	g	g	g	g	% (w/w)	g	L	g/cm	mm	g	g	%(w/w)
EQL					-	-	-	<0.001	-	-	-	-	<0.001	-	-	-	-	-	-	-
Sample ID	**Date**	**Depth Range (m)**	**Report Number**	**Matrix Description**																
Asbestos Quantification - Stage 3																				
AQ001_1	17/03/2023	0-0.3	974623	Fill - GRAVEL	695	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ001_2	17/03/2023	0.3-1.2	974623	Fill - SAND	604	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ001_3	17/03/2023	1.2-2.3	974623	Fill - SAND	689	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ001_4	17/03/2023	2.3-3.8	974623	Fill - CLAY	875	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QA15	20/03/2023	2.3-3.8	319142	Fill - CLAY	927	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QC15	17/03/2023	2.3-3.8	974623	Fill - CLAY	827	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ001_5	17/03/2023	3.8-5.3	974623	Fill - CLAY	693	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ001_6	17/03/2023	5.3-6.8	974623	Fill - CLAY	760	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ001_7	17/03/2023	6.8-7.9	974623	Fill - CLAY	785	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ001_8	17/03/2023	7.9-9	974623	Fill - CLAY	830	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ001_9	17/03/2023	9-10	974623	Fill - CLAY	691	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ001_10	17/03/2023	10-11.3	974623	Fill - CLAY	820	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ001_11	17/03/2023	11.3-11.8	974623	Natural - CLAY	796	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ001_12	17/03/2023	11.8-12.5	974623	Natural - CLAY	821	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ001_13	17/03/2023	12.5-13.3	974623	Natural - CLAY	823	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ001_14	17/03/2023	13.3-14.3	974623	Natural - CLAY	720	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ002-1	15/03/2023	0.01-1.1	972947	Fill - CLAY	589	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ002-2	15/03/2023	1.1-2.1	972947	Fill - CLAY	865	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ002-3	15/03/2023	2.1-3.1	972947	Fill - SAND	794	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ002-4	15/03/2023	3.1-4.1	972947	Fill - SAND	640	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ002-5	15/03/2023	4.1-5.1	972947	Fill - SAND	632	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ002-6	15/03/2023	5.1-6.1	972947	Fill - SAND	837	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ002-7	15/03/2023	6.1-7.1	972947	Fill - SAND	959	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QA04	15/03/2023	6.1-7.1	318798	Fill - SAND	787	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QC04	15/03/2023	6.1-7.1	972947	Fill - SAND	944	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ002-8	15/03/2023	7.1-8.1	976584	Fill - SAND	748	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ002-9	15/03/2023	8.1-9.1	972947	Fill - CLAY	673	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ002-10	15/03/2023	10.1-11.1	972947	Fill - CLAY	632	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ002-11	15/03/2023	11.1-12.1	972947	Fill - CLAY	714	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ002-12	15/03/2023	12.1-13.1	972947	Natural - CLAY	694	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ002-13	15/03/2023	13.1-14	972947	Natural - CLAY	679	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ002-14	15/03/2023	12.1-13.1	972947	Natural - CLAY	713	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ003-1	15/03/2023	0-1.1	972947	Fill - SAND	763	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QA01	15/03/2023	0-1.1	318798-A	Fill - SAND	781	**0.6452**	-	**0.0645**	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QC01	15/03/2023	0-1.1	972947	Fill - SAND	570	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ003-2	15/03/2023	1.1-1.9	972947	Fill - SAND	688	-	-	<0.001	-	-	**0.0002**	**0.00019**	**0.0000276123**	**0.00019**	10	1.65	-	-	-	-
AQ003-3	15/03/2023	1.9-3.1	972947	Fill - SAND	776	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ003-4	15/03/2023	3.1-4	972947	Fill - SAND	724	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ003-5	15/03/2023	4-5	972947	Fill - SAND	797	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ003-6	15/03/2023	5-6.2	972947	Fill - SAND	912	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ003-7	15/03/2023	6.2-6.9	972947	Fill - WEATHERED SANDSTONE	978	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ003-8	15/03/2023	6.9-7.2	972947	Fill - CLAY	901	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ003-9	15/03/2023	7.2-8.1	972947	Fill - CLAY	768	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ003-10	15/03/2023	8.1-9	972947	Natural - CLAY	790	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ003-11	15/03/2023	9-10.2	972947	Natural - CLAY	515	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ003-12	15/03/2023	10.2-11.5	972947	Natural - CLAY	1021	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ003-13	15/03/2023	11.5-12.8	972947	Natural - CLAY	819	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ003-14	15/03/2023	12.8-14	972947	Natural - CLAY	829	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ004_1	17/03/2023	0-1	973228	Fill - SAND	792	-	-	<0.001	-	-	**0.0287**	**0.00287**	**0.000362328**	**0.00287**	10	1.65	-	-	-	-
QA13	20/03/2023	0-1	319142	Fill - SAND	624	-	-	<0.001	-	-	-	-	0.0014	-	10	1.65	-	-	-	-
QC13	17/03/2023	0-1	973228	Fill - SAND	648	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ004_2	17/03/2023	1-2	973228	Fill - SAND	579	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ004_3	17/03/2023	2-3.3	973228	Fill - SAND	633	-	-	<0.001	-	-	**0.0419**	**0.006285**	**0.0009927342**	**0.006285**	10	1.65	**90x40x3**	**27**	**0.027**	**0.024545455**
AQ004_4	17/03/2023	3.3-4	973228	Fill - SAND	700	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ004_5	17/03/2023	4-5.2	973228	Fill - CLAY	825	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ004_6	17/03/2023	5.2-6	973228	Fill - CLAY	728	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ004_7	17/03/2023	6-7	973228	Fill - CLAY	849	-	-	<0.001	**7.692**	**1.5384**	**0.0892**	**0.08474**	**0.1911600518**	**1.62314**	10	1.65	-	-	-	-
AQ004_8	17/03/2023	7-7.8	973228	Fill - CLAY	9402	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ004_9	17/03/2023	7.8-9.2	973228	Fill - CLAY	872	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ004_10	17/03/2023	9.2-9.8	973228	Fill - CLAY	672	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ004_11	17/03/2023	9.8-10.8	973228	Natural - CLAY	733	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ004_12	17/03/2023	10.8-12	973228	Natural - CLAY	739	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ004_13	17/03/2023	12-13	973228	Natural - CLAY	921	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ004_14	17/03/2023	13-13.8	973228	Natural - CLAY	801	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ005_1	17/03/2023	0-1.1	973229	Fill - CLAY	694	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ005_2	17/03/2023	1.1-1.9	973229	Fill - CLAY	797	**11.1848**	**1.67772**	**0.2105836576**	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ005_3	17/03/2023	1.9-3.2	973229	Fill - CLAY	745	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ005_4	17/03/2023	3.2-4	973229	Fill - CLAY	744	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ005_5	17/03/2023	4-5.1	973229	Fill - CLAY	670	-	-	<0.001	-	-	**0.0127**	**0.012065**	**0.001801015**	**0.012065**	10	1.65	-	-	-	-
AQ005_6	17/03/2023	5.1-5.8	973229	Fill - CLAY	807	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ005_7	17/03/2023	5.8-7	973229	Fill - CLAY	1026	**2.2726**	**0.22726**	**0.0221587363**	-	-	-	-	<0.001	-	10	1.65	-	-	-	-

Table C - Asbestos
Project Number: 69329
Project Name: Stage 3, GSTC, 960A Bourke Street, Zetland NSW

					Asbestos - Laboratory Analysis										Asbestos - Field Quantification					
					Approximate Sample Mass	Mass ACM	Mass Asbestos in ACM	Asbestos from ACM in Soil	Mass FA	Mass Asbestos in FA	Mass AF	Mass asbestos in AF	Asbestos from FA & AF in Soil	Mass Asbestos in FA & AF	Quantification Soil Volume	Assumed Bulk Density	ACM Dimensions	Sample Weight	ACM Weight	ACM Quantification (%w/w)
					g	g	g	% (w/w)	g	g	g	g	% (w/w)	g	L	g/cm	mm	g	g	%(w/w)
EQL					-	-	-	<0.001	-	-	-	-	<0.001	-	-	-	-	-	-	-
Sample ID	Date	Depth Range (m)	Report Number	Matrix Description																
AQ005_8	17/03/2023	7-8.2	973229	Fill - CLAY	972	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ005_9	17/03/2023	8.2-9.1	973229	Fill - CLAY	792	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ005_10	17/03/2023	9.1-10.2	973229	Fill - CLAY	890	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ005_11	17/03/2023	10.2-11	973229	Fill - CLAY	985	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ005_12	17/03/2023	11-11.8	973229	Fill - CLAY	730	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QA14	20/03/2023	11-11.8	319142	Fill - CLAY	652	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QC14	17/03/2023	11-11.8	973229	Fill - CLAY	796	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ005_12.5	17/03/2023	11.8-12.6	973229	Natural - CLAY	870	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ006-1	15/03/2023	0-1.3	972947	Fill - SAND	657	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QA03	15/03/2023	0-1.3	318798-A	Fill - SAND	733	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QC03	15/03/2023	0-1.3	972947	Fill - SAND	728	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ006-2	15/03/2023	1.3-2.3	972947	Fill - SAND	589	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ006-3	15/03/2023	2.3-3.2	972947	Fill - SAND	698	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ006-4	15/03/2023	3.2-4.3	972947	Fill - SAND	728	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ006-5	15/03/2023	4.3-5.2	972947	Fill - CLAY	896	-	-	<0.001	0.0072	0.00144	-	-	0.0001606784	0.00144	10	1.65	-	-	-	-
AQ006-6	15/03/2023	5.2-6	972947	Fill - CLAY	910	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ006-7	15/03/2023	6-7	972947	Fill - CLAY	848	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ006-8	15/03/2023	7-8	972947	Fill - CLAY	920	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ006-9	15/03/2023	8-9.1	972947	Fill - CLAY	884	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ006-10	15/03/2023	9.1-10	972947	Natural - CLAY	916	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ006-11	15/03/2023	10-11	972947	Natural - CLAY	736	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ006-12	15/03/2023	11-12	972947	Natural - CLAY	761	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ006-13	15/03/2023	12-13	972947	Natural - CLAY	920	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ006-14	15/03/2023	13-14	972947	Natural - CLAY	777	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ007-1	15/03/2023	0-1	972947	Fill - SAND	756	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ007-2	15/03/2023	1-2.2	972947	Fill - CLAY	692	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ007-3	15/03/2023	2.2-3.1	972947	Fill - CLAY	624	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ007-4	15/03/2023	3.1-4.6	972947	Fill - SAND	827	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ007-5	15/03/2023	4.6-5.3	972947	Fill - CLAY	642	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ007-6	15/03/2023	5.3-6	972947	Fill - CLAY	684	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ007-7	15/03/2023	6-7.2	972947	Fill - CLAY	616	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ007-8	15/03/2023	7.2-8.1	972947	Fill - CLAY	548	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ007-9	15/03/2023	8.1-8.9	972947	Fill - CLAY	664	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ007-10	15/03/2023	8.9-10	972947	Fill - CLAY	647	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QA02	15/03/2023	8.9-10	318798	Fill - CLAY	730	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QC02	15/03/2023	8.9-10	972947	Fill - CLAY	665	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ007-11	15/03/2023	10-11.2	972947	Natural - CLAY	692	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ007-12	15/03/2023	11.2-12.1	972947	Natural - SAND	635	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ007-13	15/03/2023	12.1-12.9	972947	Natural - SAND	846	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ007-14	15/03/2023	12.9-14.1	972947	Natural - CLAY	744	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ008-1	20/03/2023	0-1	974308	Fill - SAND	749	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ008-2	20/03/2023	1-2.2	974308	Fill - SAND	679	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ008-3	20/03/2023	2.2-2.9	974308	Fill - SAND	567	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QA17	20/03/2023	2.2-2.9	319142	Fill - SAND	657	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QC17	20/03/2023	2.2-2.9	974308	Fill - SAND	562	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ008-4	20/03/2023	2.9-3.9	974308	Fill - SAND	815	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ008-5	20/03/2023	3.9-4.9	974308	Fill - CLAY	905	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ008-6	20/03/2023	4.9-5.8	974308	Fill - CLAY	992	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ008-7	20/03/2023	5.8-7	974308	Fill - CLAY	688	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ008-8	20/03/2023	7-8	974308	Fill - CLAY	767	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ008-9	20/03/2023	8-9	974308	Fill - CLAY	791	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ008-10	20/03/2023	9-10	974308	Fill - CLAY	839	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ008-11	20/03/2023	10-11	974308	Fill - CLAY	713	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ008-12	20/03/2023	11-12	974308	Fill - CLAY	801	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ008-13	20/03/2023	12-13	974308	Fill - CLAY	758	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ008-14	20/03/2023	13-14.1	974308	Fill - CLAY	650	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ009-1	16/03/2023	0-1.4	973252	Fill - CLAY	658	-	-	<0.001	0.008	0.0048	0.0006	0.0006	0.0008207934	0.0054	10	1.65	-	-	-	-
AQ009-2	16/03/2023	1.4-2.3	973252	Fill - CLAY	655	-	-	<0.001	-	-	0.0008	0.0008	0.0001221934	0.0008	10	1.65	-	-	-	-
QA06	20/03/2023	1.4-2.3	319142	Fill - CLAY	685	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QC06	16/03/2023	1.4-2.3	973252	Fill - CLAY	501	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ009-3	16/03/2023	2.3-3.1	973252	Fill - CLAY	617	-	-	<0.001	-	-	0.0006	0.0006	0.0000971817	0.0006	10	1.65	-	-	-	-
AQ009-4	16/03/2023	3.1-4	973252	Fill - CLAY	809	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	60x25x5	9	0.009	0.008181818
AQ009-5	16/03/2023	4-5.2	973252	Fill - CLAY	985	2.7036	0.13518	0.0137210719	-	-	0.0013	0.0013	0.0001319529	0.0013	10	1.65	-	-	-	-
AQ009-6	16/03/2023	5.2-6.1	973252	Fill - CLAY	892	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ009-7	16/03/2023	6.1-7	973252	Fill - CLAY	903	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ009-8	16/03/2023	7-8	973252	Fill - CLAY	915	-	-	<0.001	-	-	0.0046	0.0046	0.0005028422	0.0046	10	1.65	-	-	-	-
AQ009-9	16/03/2023	8-9.3	973252	Fill - CLAY	864	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ009-10	16/03/2023	9.3-10.1	973252	Natural - CLAY	801	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ009-11	16/03/2023	10.1-11	973252	Natural - CLAY	850	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ009-12	16/03/2023	11-12	973252	Natural - CLAY	925	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ009-13	16/03/2023	12-13	973252	Natural - CLAY	870	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ009-14	16/03/2023	13-14.1	973252	Natural - CLAY	784	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ010_1	16/03/2023	0-1.1	973231	Fill - SAND	682	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QA05	20/03/2023	0-1.1	319142	Fill - SAND	713	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QC05	16/03/2023	0-1.1	973231	Fill - SAND	627	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ010_2	16/03/2023	1.1-2.3	973231	Fill - SAND	855	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ010_3	16/03/2023	2.3-3	973231	Fill - SAND	634	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ010_4	16/03/2023	3-4.1	973231	Fill - SAND	538	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ010_5	16/03/2023	4.1-5.1	973231	Fill - SAND	860	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ010_6	16/03/2023	5.1-6	973231	Fill - CLAY	958	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ010_7	16/03/2023	6-7	973231	Fill - CLAY	794	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ010_8	16/03/2023	7-8	973231	Fill - CLAY	888	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-

Table C - Asbestos
Project Number: 69329
Project Name: Stage 3, GSTC, 960A Bourke Street, Zetland NSW

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					Asbestos - Laboratory Analysis									Asbestos - Field Quantification						
					Approximate Sample Mass	Mass ACM	Mass Asbestos in ACM	Asbestos from ACM in Soil	Mass FA	Mass Asbestos in FA	Mass AF	Mass asbestos in AF	Asbestos from FA & AF in Soil	Mass Asbestos in FA & AF	Quantification Soil Volume	Assumed Bulk Density	ACM Dimensions	Sample Weight	ACM Weight	ACM Quantification (%w/w)
					g	g	g	% (w/w)	g	g	g	g	% (w/w)	g	L	g/cm	mm	g	g	%(w/w)
EQL					-	-	-	<0.001	-	-	-	-	<0.001	-	-	-	-	-	-	-
Sample ID	Date	Depth Range (m)	Report Number	Matrix Description																
AQ015_7	17/03/2023	6.7-7.4	973234	Fill - CLAY	645	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ015_8	17/03/2023	7.4-8	973234	Fill - CLAY	710	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ015_9	17/03/2023	8-8.9	973234	Fill - CLAY	595	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ015_10	17/03/2023	8.9-10.1	973234	Fill - CLAY	517	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ015_11	17/03/2023	10.1-11.3	973234	Fill - CLAY	564	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ015_12	17/03/2023	11.3-12.4	973234	Natural - CLAY	689	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QA10	20/03/2023	11.3-12.4	319142	Natural - CLAY	772	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QC10	17/03/2023	11.3-12.4	973234	Natural - CLAY	817	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ015_13	17/03/2023	12.4-13.3	973234	Natural - CLAY	863	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ015_14	17/03/2023	13.3-14.1	973234	Natural - CLAY	797	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ016-1	16/03/2023	0-1	973249	Fill - SAND	635	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QA09	20/03/2023	0-1	319142	Fill - SAND	622	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QC09	16/03/2023	0-1	973249	Fill - SAND	590	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ016-2	16/03/2023	1-2	973249	Fill - SAND	601	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ016-3	16/03/2023	2-3.1	973249	Fill - SAND	544	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ016-4	16/03/2023	3.1-3.8	973249	Fill - SAND	554	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ016-5	16/03/2023	3.8-5	973249	Fill - SAND	568	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ016-6	16/03/2023	5-6	973249	Fill - SAND	1040	-	-	<0.001	**0.0156**	**0.01248**	**0.0012**	**0.0012**	**0.0013155111**	**0.01368**	10	1.65	-	-	-	-
AQ016-7	16/03/2023	6-7	973249	Fill - SAND	848	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ016-8	16/03/2023	7-8	973249	Fill - SAND	861	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ016-9	16/03/2023	8-9	973249	Fill - SAND	965	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ016-10	16/03/2023	9-10.3	973249	Fill - SAND	809	-	-	<0.001	-	-	**0.0019**	**0.0019**	**0.000234974**	**0.0019**	10	1.65	-	-	-	-
AQ016-11	16/03/2023	10.3-11	973249	Fill - CLAY	783	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ016-12	16/03/2023	11-12	973249	Fill - CLAY	788	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ016-13	16/03/2023	12-13	973249	Fill - CLAY	718	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ016-14	16/03/2023	13-14	973249	Fill - CLAY	757	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ017_1	17/03/2023	0-1.3	973233	Fill - CLAY	589	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ017_2	17/03/2023	1.3-2.6	973233	Fill - CLAY	699	-	-	<0.001	**0.0046**	**0.00368**	-	-	**0.0005262405**	**0.00368**	10	1.65	-	-	-	-
AQ017_3	17/03/2023	2.6-3.1	973233	Fill - CLAY	727	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ017_4	17/03/2023	3.1-4.4	973233	Fill - CLAY	725	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ017_5	17/03/2023	4.4-5.5	973233	Fill - CLAY	816	-	-	<0.001	-	-	**0.0012**	**0.0012**	**0.0001470408**	**0.0012**	10	1.65	-	-	-	-
AQ017_6	17/03/2023	5.5-6.3	973233	Fill - CLAY	766	-	-	<0.001	**0.4738**	**0.33166**	-	-	**0.0432806995**	**0.33166**	10	1.65	-	-	-	-
AQ017_7	17/03/2023	6.3-7.6	973233	Fill - CLAY	747	**0.9029**	**0.135435**	**0.0181426658**	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ017_8	17/03/2023	7.6-8.7	973233	Fill - CLAY	911	-	-	<0.001	-	-	**0.0036**	**0.0036**	**0.0003952569**	**0.0036**	10	1.65	-	-	-	-
AQ017_9	17/03/2023	8.7-9	973233	Fill - CLAY	705	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ017_10	17/03/2023	9-10.3	973233	Fill - CLAY	649	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ017_11	17/03/2023	10.3-11	973233	Fill - CLAY	636	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ017_12	17/03/2023	11-12.2	973233	Fill - CLAY	854	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ017_13	17/03/2023	12.2-13.4	973233	Fill - CLAY	564	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QA12	20/03/2023	12.2-13.4	319142	Fill - CLAY	751	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QC12	17/03/2023	12.2-13.4	973233	Fill - CLAY	752	-	-	<0.001	-	-	**0.0012**	**0.0012**	**0.0001595108**	**0.0012**	10	1.65	-	-	-	-
AQ017_14	17/03/2023	13.4-14.1	973233	Fill - CLAY	746	-	-	<0.001	-	-	**0.0016**	**0.0016**	**0.0002145923**	**0.0016**	10	1.65	-	-	-	-
AQ018-1	21/03/2023	0-0.7	974304	Fill - SAND	620	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QA21	20/03/2023	0-0.7	319142	Fill - SAND	610	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QC21	21/03/2023	0-0.7	974304	Fill - SAND	604	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ018-2	21/03/2023	0.7-2	974304	Fill - SAND	526	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ018-3	21/03/2023	2-3.5	974304	Fill - SAND	439	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ018-4	21/03/2023	3.5-4.8	974304	Fill - SAND	546	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ018-5	21/03/2023	4.8-5.3	974304	Fill - CLAY	691	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ018-6	21/03/2023	5.3-6.3	974304	Fill - CLAY	729	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ018-7	21/03/2023	6.3-7.3	974304	Fill - CLAY	876	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ018-8	21/03/2023	7.3-8	974304	Fill - CLAY	858	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ018-9	21/03/2023	8-9	974304	Fill - CLAY	721	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ018-10	21/03/2023	9-10	974304	Fill - CLAY	747	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ018-11	21/03/2023	10-10.9	974304	Fill - CLAY	747	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ019-1	21/03/2023	0-0.8	974278	Fill - SAND	716	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ019-2	21/03/2023	0.8-1.9	974278	Fill - SAND	804	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ019-3	21/03/2023	1.9-3.1	974278	Fill - SAND	664	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ019-4	21/03/2023	3.1-4.4	974278	Fill - SAND	779	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ019-5	21/03/2023	4.4-5.1	974278	Fill - SAND	732	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ019-6	21/03/2023	5.1-6.2	974278	Fill - SAND	540	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ020-1	21/03/2023	0-0.9	974652	Fill - SAND	678	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-

Table C - Asbestos
Project Number: 69329
Project Name: Stage 3, GSTC, 960A Bourke Street, Zetland NSW

					Asbestos - Laboratory Analysis										Asbestos - Field Quantification						
					Approximate Sample Mass	Mass ACM	Mass Asbestos in ACM	Asbestos from ACM in Soil	Mass FA	Mass Asbestos in FA	Mass AF	Mass asbestos in AF	Asbestos from FA & AF in Soil	Mass Asbestos in FA & AF	Quantification Soil Volume	Assumed Bulk Density	ACM Dimensions	Sample Weight	ACM Weight	ACM Quantification (%w/w)
					g	g	g	% (w/w)	g	g	g	g	% (w/w)	g	L	g/cm	mm	g	g	%(w/w)
EQL					-	-	-	<0.001	-	-	-	-	<0.001	-	-	-	-	-	-	-
Sample ID	Date	Depth Range (m)	Report Number	Matrix Description																
QC27	21/03/2023	0-0.9	974652	Fill - SAND	761	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QA27	21/03/2023	0-0.9	319308	Fill - SAND	711	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ020-2	21/03/2023	0.9-2.1	974652	Fill - CLAY	641	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ020-3	21/03/2023	2.1-3.2	974652	Fill - CLAY	608	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ020-4	21/03/2023	3.2-3.9	974652	Fill - SAND	708	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ020-5	21/03/2023	3.9-4.9	974652	Fill - CLAY	912	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ020-6	21/03/2023	4.9-6.2	974652	Reworked Natural - CLAY	523	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ021-1	20/03/2023	0-0.9	974425	Fill - SAND	610	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ021-2	20/03/2023	0.9-1.7	974425	Fill - SAND	632	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QA19	20/03/2023	0.9-1.7	319142	Fill - SAND	627	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QC19	20/03/2023	0.9-1.7	974425	Fill - SAND	625	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ021-3	20/03/2023	1.7-3.8	974425	Fill - SAND	647	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ021-4	20/03/2023	3.8-4.7	974425	Fill - SAND	656	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ021-5	20/03/2023	4.7-5.5	974425	Fill - SAND	869	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ021-6	20/03/2023	5.5-6.1	974425	Fill - SAND	846	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ022-1	20/03/2023	0-0.8	974425	Fill - SAND	665	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ022-2	20/03/2023	0.8-1.7	974425	Fill - SAND	573	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ022-3	20/03/2023	1.7-2.9	974425	Fill - SAND	584	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ022-4	20/03/2023	2.9-4.1	974425	Fill - SAND	641	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ022-5	20/03/2023	4.1-5.1	974425	Fill - SAND	580	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ022-6	20/03/2023	5.1-6.0	974425	Fill - SAND	621	-	-	<0.001	**0.0136**	**0.00544**	-	-	**0.0008758513**	**0.00544**	10	1.65	-	-	-	-
AQ023-1	21/03/2023	0-0.9	974278	Fill - SAND	750	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	**20x20x4**	**4**	**0.004**	**0.003636364**
AQ023-2	21/03/2023	0.9-1.8	974278	Fill - SAND	592	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	**50x50x3**	**21**	**0.021**	**0.019090909**
AQ023-3	21/03/2023	1.8-2.9	974278	Fill - SAND	700	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ023-4	21/03/2023	2.9-4.1	974278	Fill - SAND	670	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ023-5	21/03/2023	4.1-5.3	974278	Fill - SAND	652	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QC23	21/03/2023	4.1-5.3	974278	Fill - SAND	544	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QA23	21/03/2023	4.1-5.3	319308	Fill - SAND	536	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ023-6	21/03/2023	5.3-6	974278	Fill - SAND	711	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ024-1	20/03/2023	0-0.9	974425	Fill - SAND	676	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ024-2	20/03/2023	0.9-1.4	974425	Fill - SAND	545	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ024-3	20/03/2023	1.4-2.8	974425	Fill - SAND	638	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ024-4	20/03/2023	2.8-4.2	974425	Fill - SAND	451	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ024-5	20/03/2023	4.8-5.5	974425	Fill - CLAY	610	-	-	<0.001	**2.4828**	**1.48968**	-	-	**0.2443299984**	**1.48968**	10	1.65	-	-	-	-
AQ024-6	20/03/2023	5.5-6.2	974425	Fill - CLAY	607	-	-	<0.001	**0.1277**	**0.07662**	-	-	**0.0126144221**	**0.07662**	10	1.65	-	-	-	-
AQ025-1	21/03/2023	0-1.1	974652	Fill - SAND	588	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ025-2	21/03/2023	1.1-1.9	974652	Fill - SAND	634	-	-	<0.001	**0.0071**	**0.00426**	**0.0472**	**0.00944**	**0.0021598613**	**0.0137**	10	1.65	**30x25x3**	**6**	**0.006**	**0.005454545**
AQ025-3	21/03/2023	1.9-2.8	974652	Fill - SAND	750	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ025-4	21/03/2023	2.8-4.1	974652	Fill - SAND	708	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ025-5	21/03/2023	4.1-5	974652	Fill - SAND	723	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ025-6	21/03/2023	5-6.0	974652	Fill - SAND	561	-	-	<0.001	-	-	**0.0509**	**0.00509**	**0.0009079558**	**0.00509**	10	1.65	**80x40x5**	**23**	**0.023**	**0.020909091**
AQ026-1	21/03/2023	0-1.1	974278	Fill - SAND	664	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ026-2	21/03/2023	1.1-1.8	974278	Fill - SAND	625	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ026-3	21/03/2023	1.8-3.2	974278	Fill - SAND	605	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ026-4	21/03/2023	3.2-4.1	974278	Fill - SAND	896	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ026-5	21/03/2023	4.1-5	974278	Fill - SAND	661	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ026-6	21/03/2023	5-6.1	974278	Fill - SAND	556	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ027-1	21/03/2023	0-0.8	974652	Fill - SAND	702	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ027-2	21/03/2023	0.8-2	974652	Fill - SAND	649	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ027-3	21/03/2023	2-2.9	974652	Fill - SAND	678	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ027-4	21/03/2023	2.9-4.1	974652	Fill - SAND	659	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ027-5	21/03/2023	4.1-5.5	974652	Fill - GRAVEL	431	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ028-1	21/03/2023	0-1.2	974652	Fill - SAND	609	-	-	<0.001	**0.0204**	**0.01224**	-	-	**0.0020111732**	**0.01224**	10	1.65	-	-	-	-
QC29	21/03/2023	0-1.2	974652	Fill - SAND	588	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
QA29	21/03/2023	0-1.2	319308	Fill - SAND	679	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ028-2	21/03/2023	1.2-2.1	974652	Fill - SAND	471	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	**25x15x4**	**4**	**0.004**	**0.003636364**
AQ028-3	21/03/2023	2.1-3.3	974652	Fill - SAND	833	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ028-4	21/03/2023	3.3-4.6	974652	Fill - SAND	738	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-
AQ028-5	21/03/2023	4.6-5.1	974652	Reworked Natural - CLAY	945	-	-	<0.001	-	-	-	-	<0.001	-	10	1.65	-	-	-	-

Env Stds Comments

#1:Residential with minimal opportunites for soil access

#2:Only applies where the FA and AF are able to be quantified by gravimetric procedures (refer Section 4.10). This screening level is not applicable to free fibres.

Attachment D Historic Laboratory Reports

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CERTIFICATE OF ANALYSIS 289593

Client Details

Client	JBS & G (NSW & WA) Pty Ltd
Attention	T Frisken
Address	Level 1, 50 Margaret St, Sydney, NSW, 2000

Sample Details

Your Reference	**62236, Green Square Stages 3 & 4**
Number of Samples	7 Soil
Date samples received	23/02/2022
Date completed instructions received	23/02/2022

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	04/03/2022
Date of Issue	04/03/2022

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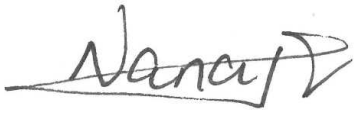
Results Approved By
Dragana Tomas, Senior Chemist
Hannah Nguyen, Metals Supervisor
Thomas Beenie, Lab Technician

Authorised By



Nancy Zhang, Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil						
Our Reference		289593-1	289593-2	289593-3	289593-4	289593-5
Your Reference	UNITS	QC20220217-PG1	QC20220217-PG2	QC20220217-PG3	QC20220217-PG4	QC20220217-PG5
Date Sampled		17/02/2022	17/02/2022	17/02/2022	17/02/2022	17/02/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	25/02/2022	25/02/2022	25/02/2022	25/02/2022	25/02/2022
Date analysed	-	25/02/2022	25/02/2022	25/02/2022	25/02/2022	25/02/2022
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	119	123	70	122	117

vTRH(C6-C10)/BTEXN in Soil		
Our Reference		289593-6
Your Reference	UNITS	QC20220217-PG6
Date Sampled		17/02/2022
Type of sample		Soil
Date extracted	-	25/02/2022
Date analysed	-	25/02/2022
TRH C_6 - C_9	mg/kg	<25
TRH C_6 - C_{10}	mg/kg	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25
Benzene	mg/kg	<0.2
Toluene	mg/kg	<0.5
Ethylbenzene	mg/kg	<1
m+p-xylene	mg/kg	<2
o-Xylene	mg/kg	<1
Naphthalene	mg/kg	<1
Total +ve Xylenes	mg/kg	<1
Surrogate aaa-Trifluorotoluene	%	103

svTRH (C10-C40) in Soil						
Our Reference		289593-1	289593-2	289593-3	289593-4	289593-5
Your Reference	UNITS	QC20220217-PG1	QC20220217-PG2	QC20220217-PG3	QC20220217-PG4	QC20220217-PG5
Date Sampled		17/02/2022	17/02/2022	17/02/2022	17/02/2022	17/02/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	25/02/2022	25/02/2022	25/02/2022	25/02/2022	25/02/2022
Date analysed	-	25/02/2022	25/02/2022	25/02/2022	25/02/2022	25/02/2022
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	120	<100	320	150	220
TRH C_{29} - C_{36}	mg/kg	160	<100	280	140	190
Total +ve TRH (C10-C36)	mg/kg	280	<50	600	290	410
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	250	130	520	270	370
TRH >C_{34} -C_{40}	mg/kg	120	<100	170	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	360	130	690	270	370
Surrogate o-Terphenyl	%	98	96	115	101	105

svTRH (C10-C40) in Soil		
Our Reference		289593-6
Your Reference	UNITS	QC20220217-PG6
Date Sampled		17/02/2022
Type of sample		Soil
Date extracted	-	25/02/2022
Date analysed	-	25/02/2022
TRH C_{10} - C_{14}	mg/kg	<50
TRH C_{15} - C_{28}	mg/kg	180
TRH C_{29} - C_{36}	mg/kg	120
Total +ve TRH (C10-C36)	mg/kg	290
TRH >C_{10} -C_{16}	mg/kg	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50
TRH >C_{16} -C_{34}	mg/kg	280
TRH >C_{34} -C_{40}	mg/kg	<100
Total +ve TRH (>C10-C40)	mg/kg	280
Surrogate o-Terphenyl	%	99

PAHs in Soil						
Our Reference		289593-1	289593-2	289593-3	289593-4	289593-5
Your Reference	UNITS	QC20220217-PG1	QC20220217-PG2	QC20220217-PG3	QC20220217-PG4	QC20220217-PG5
Date Sampled		17/02/2022	17/02/2022	17/02/2022	17/02/2022	17/02/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	25/02/2022	25/02/2022	25/02/2022	25/02/2022	25/02/2022
Date analysed	-	28/02/2022	28/02/2022	28/02/2022	28/02/2022	28/02/2022
Naphthalene	mg/kg	<0.1	<0.1	0.2	0.4	<0.1
Acenaphthylene	mg/kg	0.3	0.2	0.7	0.4	0.2
Acenaphthene	mg/kg	<0.1	<0.1	0.4	0.3	<0.1
Fluorene	mg/kg	0.2	0.1	0.6	0.6	0.2
Phenanthrene	mg/kg	1.5	0.9	8.6	4.1	1.8
Anthracene	mg/kg	0.5	0.3	3.0	1.5	0.8
Fluoranthene	mg/kg	2.6	1.6	14	6.3	4.1
Pyrene	mg/kg	2.6	1.6	12	6.3	3.8
Benzo(a)anthracene	mg/kg	1.6	1	7.5	3.8	2.3
Chrysene	mg/kg	1.2	0.7	2.5	1.0	1.7
Benzo(b,j+k)fluoranthene	mg/kg	2.3	1	6.8	2.8	3.3
Benzo(a)pyrene	mg/kg	1.7	1.1	8.1	3.9	2.4
Indeno(1,2,3-c,d)pyrene	mg/kg	0.8	0.5	3.6	1.7	1.2
Dibenzo(a,h)anthracene	mg/kg	0.3	0.2	1.3	0.6	0.4
Benzo(g,h,i)perylene	mg/kg	0.9	0.6	4.1	1.9	1.3
Total +ve PAH's	mg/kg	17	10	73	36	24
Benzo(a)pyrene TEQ calc (zero)	mg/kg	2.5	1.6	11	5.4	3.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	2.5	1.6	11	5.4	3.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	2.5	1.6	11	5.4	3.5
Surrogate p-Terphenyl-d14	%	102	102	105	125	128

PAHs in Soil		
Our Reference		289593-6
Your Reference	UNITS	QC20220217-PG6
Date Sampled		17/02/2022
Type of sample		Soil
Date extracted	-	25/02/2022
Date analysed	-	28/02/2022
Naphthalene	mg/kg	0.1
Acenaphthylene	mg/kg	0.1
Acenaphthene	mg/kg	<0.1
Fluorene	mg/kg	0.2
Phenanthrene	mg/kg	1.4
Anthracene	mg/kg	0.4
Fluoranthene	mg/kg	1.4
Pyrene	mg/kg	1.3
Benzo(a)anthracene	mg/kg	0.7
Chrysene	mg/kg	0.6
Benzo(b,j+k)fluoranthene	mg/kg	0.9
Benzo(a)pyrene	mg/kg	0.72
Indeno(1,2,3-c,d)pyrene	mg/kg	0.2
Dibenzo(a,h)anthracene	mg/kg	0.1
Benzo(g,h,i)perylene	mg/kg	0.3
Total +ve PAH's	mg/kg	8.4
Benzo(a)pyrene TEQ calc (zero)	mg/kg	1.0
Benzo(a)pyrene TEQ calc(half)	mg/kg	1.0
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	1.0
Surrogate p-Terphenyl-d14	%	123

Acid Extractable metals in soil						
Our Reference		289593-1	289593-2	289593-3	289593-4	289593-5
Your Reference	UNITS	QC20220217-PG1	QC20220217-PG2	QC20220217-PG3	QC20220217-PG4	QC20220217-PG5
Date Sampled		17/02/2022	17/02/2022	17/02/2022	17/02/2022	17/02/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	25/02/2022	25/02/2022	25/02/2022	25/02/2022	25/02/2022
Date analysed	-	25/02/2022	25/02/2022	25/02/2022	25/02/2022	25/02/2022
Arsenic	mg/kg	4	<4	<4	6	6
Cadmium	mg/kg	0.6	0.5	<0.4	0.8	<0.4
Chromium	mg/kg	14	18	14	15	12
Copper	mg/kg	81	170	110	100	70
Lead	mg/kg	210	210	170	290	180
Mercury	mg/kg	0.4	0.3	0.2	0.4	0.8
Nickel	mg/kg	21	22	13	12	8
Zinc	mg/kg	170	180	130	250	150

Acid Extractable metals in soil		
Our Reference		289593-6
Your Reference	UNITS	QC20220217-PG6
Date Sampled		17/02/2022
Type of sample		Soil
Date prepared	-	25/02/2022
Date analysed	-	25/02/2022
Arsenic	mg/kg	9
Cadmium	mg/kg	<0.4
Chromium	mg/kg	6
Copper	mg/kg	31
Lead	mg/kg	22
Mercury	mg/kg	<0.1
Nickel	mg/kg	5
Zinc	mg/kg	35

Moisture						
Our Reference		289593-1	289593-2	289593-3	289593-4	289593-5
Your Reference	UNITS	QC20220217-PG1	QC20220217-PG2	QC20220217-PG3	QC20220217-PG4	QC20220217-PG5
Date Sampled		17/02/2022	17/02/2022	17/02/2022	17/02/2022	17/02/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	25/02/2022	25/02/2022	25/02/2022	25/02/2022	25/02/2022
Date analysed	-	28/02/2022	28/02/2022	28/02/2022	28/02/2022	28/02/2022
Moisture	%	9.7	8.9	13	6.3	13

Moisture		
Our Reference		289593-6
Your Reference	UNITS	QC20220217-PG6
Date Sampled		17/02/2022
Type of sample		Soil
Date prepared	-	25/02/2022
Date analysed	-	28/02/2022
Moisture	%	11

ASLP Preparation - Elutriate						
Our Reference		289593-1	289593-2	289593-3	289593-4	289593-5
Your Reference	UNITS	QC20220217-PG1	QC20220217-PG2	QC20220217-PG3	QC20220217-PG4	QC20220217-PG5
Date Sampled		17/02/2022	17/02/2022	17/02/2022	17/02/2022	17/02/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
pH of Elutriate	pH units	6.3	6.3	6.3	6.3	6.3
pH of Elutriate after tumbling	pH units	6.8	6.8	6.7	6.7	6.7

ASLP Preparation - Elutriate		
Our Reference		289593-6
Your Reference	UNITS	QC20220217-PG6
Date Sampled		17/02/2022
Type of sample		Soil
pH of Elutriate	pH units	6.3
pH of Elutriate after tumbling	pH units	6.7

sTRH in water leach						
Our Reference		289593-1	289593-2	289593-3	289593-4	289593-5
Your Reference	UNITS	QC20220217-PG1	QC20220217-PG2	QC20220217-PG3	QC20220217-PG4	QC20220217-PG5
Date Sampled		17/02/2022	17/02/2022	17/02/2022	17/02/2022	17/02/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	04/03/2022	04/03/2022	04/03/2022	04/03/2022	04/03/2022
Date analysed	-	04/03/2022	04/03/2022	04/03/2022	04/03/2022	04/03/2022
TRH C_{10} - C_{14}	µg/L	<50	<50	<50	<50	<50
TRH C_{15} - C_{28}	µg/L	<100	<100	<100	<100	<100
TRH C_{29} - C_{36}	µg/L	<100	<100	<100	<100	<100
TRH >C_{10} - C_{16}	µg/L	<50	<50	<50	<50	<50
TRH >C_{16} - C_{34}	µg/L	<100	<100	<100	<100	<100
TRH >C_{34} - C_{40}	µg/L	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	126	89	86	104	87

sTRH in water leach		
Our Reference		289593-6
Your Reference	UNITS	QC20220217-PG6
Date Sampled		17/02/2022
Type of sample		Soil
Date extracted	-	04/03/2022
Date analysed	-	04/03/2022
TRH C_{10} - C_{14}	µg/L	<50
TRH C_{15} - C_{28}	µg/L	<100
TRH C_{29} - C_{36}	µg/L	<100
TRH >C_{10} - C_{16}	µg/L	<50
TRH >C_{16} - C_{34}	µg/L	<100
TRH >C_{34} - C_{40}	µg/L	<100
Surrogate o-Terphenyl	%	128

PAHs in Water Leach - Low Level						
Our Reference		289593-1	289593-2	289593-3	289593-4	289593-5
Your Reference	UNITS	QC20220217-PG1	QC20220217-PG2	QC20220217-PG3	QC20220217-PG4	QC20220217-PG5
Date Sampled		17/02/2022	17/02/2022	17/02/2022	17/02/2022	17/02/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
pH of final Leachate	pH units	6.8	6.8	6.7	6.7	6.7
Date extracted	-	04/03/2022	04/03/2022	04/03/2022	04/03/2022	04/03/2022
Date analysed	-	04/03/2022	04/03/2022	04/03/2022	04/03/2022	04/03/2022
Naphthalene	µg/L	<0.1	<0.1	0.3	0.4	<0.1
Acenaphthylene	µg/L	<0.1	<0.1	0.1	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1	0.3	0.2	<0.1
Fluorene	µg/L	<0.1	<0.1	0.5	0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1	1.4	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1	0.3	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1	0.3	<0.1	0.1
Pyrene	µg/L	<0.1	<0.1	0.3	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate p-Terphenyl-d14	%	105	106	106	102	105

PAHs in Water Leach - Low Level		
Our Reference		289593-6
Your Reference	UNITS	QC20220217-PG6
Date Sampled		17/02/2022
Type of sample		Soil
pH of final Leachate	pH units	6.7
Date extracted	-	04/03/2022
Date analysed	-	04/03/2022
Naphthalene	µg/L	0.5
Acenaphthylene	µg/L	<0.1
Acenaphthene	µg/L	0.4
Fluorene	µg/L	0.4
Phenanthrene	µg/L	1.2
Anthracene	µg/L	0.2
Fluoranthene	µg/L	0.2
Pyrene	µg/L	0.1
Benzo(a)anthracene	µg/L	<0.1
Chrysene	µg/L	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2
Benzo(a)pyrene	µg/L	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1
Surrogate p-Terphenyl-d14	%	99

Metals from Neutral Leaching Fluid ICPMS						
Our Reference		289593-1	289593-2	289593-3	289593-4	289593-5
Your Reference	UNITS	QC20220217-PG1	QC20220217-PG2	QC20220217-PG3	QC20220217-PG4	QC20220217-PG5
Date Sampled		17/02/2022	17/02/2022	17/02/2022	17/02/2022	17/02/2022
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	04/03/2022	04/03/2022	04/03/2022	04/03/2022	04/03/2022
Date analysed	-	04/03/2022	04/03/2022	04/03/2022	04/03/2022	04/03/2022
Arsenic	µg/L	<1	<1	<1	<1	<1
Cadmium	µg/L	1.1	0.7	0.3	1.9	0.3
Chromium	µg/L	<1	<1	<1	<1	<1
Copper	µg/L	5	4	11	10	5
Lead	µg/L	3	3	5	8	4
Mercury	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Nickel	µg/L	7	7	5	11	6
Zinc	µg/L	47	34	38	210	56

Metals from Neutral Leaching Fluid ICPMS		
Our Reference		289593-6
Your Reference	UNITS	QC20220217-PG6
Date Sampled		17/02/2022
Type of sample		Soil
Date extracted	-	04/03/2022
Date analysed	-	04/03/2022
Arsenic	µg/L	<1
Cadmium	µg/L	0.2
Chromium	µg/L	<1
Copper	µg/L	1
Lead	µg/L	<1
Mercury	µg/L	<0.05
Nickel	µg/L	8
Zinc	µg/L	19

Method ID	Methodology Summary
Elutriate	A sediment is extracted 1:4 with site water and tumbled for 1 hour. The sample is then centrifuged and or filtered and analysed. Please see report comments for more information.
INORG-004	Toxicity Characteristic Leaching Procedure (TCLP) using Zero Headspace Extraction (zHE) using AS4439 and USEPA 1311.
Inorg-004	Toxicity Characteristic Leaching Procedure (TCLP) using AS 4439 and USEPA 1311. Please note that the mass used may be scaled down from default based on sample mass available. Samples are stored at 2-6oC before and after leachate preparation.
Inorg-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
Metals-020	Determination of various metals by ICP-AES.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Metals-021	Determination of Mercury by Cold Vapour AAS following leaching using ultra high purity water, i.e. reagent water = CLASS 1, 2 & 4 from AS 4439.3.
Metals-022	Determination of various metals by ICP-MS following leaching using ultra high purity water, i.e. reagent water = CLASS 1, 2 & 4 from AS 4439.3.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.

Method ID	Methodology Summary
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS and/or GC-MS/MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013. For soil results:- 1. 'EQ PQL'values are assuming all contributing PAHs reported as <PQL are actually at the PQL. This is the most conservative approach and can give false positive TEQs given that PAHs that contribute to the TEQ calculation may not be present. 2. 'EQ zero'values are assuming all contributing PAHs reported as <PQL are zero. This is the least conservative approach and is more susceptible to false negative TEQs when PAHs that contribute to the TEQ calculation are present but below PQL. 3. 'EQ half PQL'values are assuming all contributing PAHs reported as <PQL are half the stipulated PQL. Hence a mid-point between the most and least conservative approaches above. Note, the Total +ve PAHs PQL is reflective of the lowest individual PQL and is therefore "Total +ve PAHs" is simply a sum of the positive individual PAHs.
Org-022/025 ASLP	ASLP Leachates are extracted with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	289593-2
Date extracted	-			25/02/2022	1	25/02/2022	25/02/2022		25/02/2022	25/02/2022
Date analysed	-			25/02/2022	1	25/02/2022	25/02/2022		25/02/2022	25/02/2022
TRH C_6 - C_9	mg/kg	25	Org-023	<25	1	<25	<25	0	74	90
TRH C_6 - C_{10}	mg/kg	25	Org-023	<25	1	<25	<25	0	74	90
Benzene	mg/kg	0.2	Org-023	<0.2	1	<0.2	<0.2	0	75	104
Toluene	mg/kg	0.5	Org-023	<0.5	1	<0.5	<0.5	0	76	106
Ethylbenzene	mg/kg	1	Org-023	<1	1	<1	<1	0	75	76
m+p-xylene	mg/kg	2	Org-023	<2	1	<2	<2	0	71	82
o-Xylene	mg/kg	1	Org-023	<1	1	<1	<1	0	70	82
Naphthalene	mg/kg	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	109	1	119	104	13	82	104

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	289593-2
Date extracted	-			25/02/2022	1	25/02/2022	25/02/2022		25/02/2022	25/02/2022
Date analysed	-			25/02/2022	1	25/02/2022	25/02/2022		25/02/2022	25/02/2022
TRH C_{10} - C_{14}	mg/kg	50	Org-020	<50	1	<50	<50	0	94	90
TRH C_{15} - C_{28}	mg/kg	100	Org-020	<100	1	120	160	29	87	101
TRH C_{29} - C_{36}	mg/kg	100	Org-020	<100	1	160	230	36	127	112
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	<50	1	<50	<50	0	94	90
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	<100	1	250	340	31	87	101
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	<100	1	120	170	34	127	112
Surrogate o-Terphenyl	%		Org-020	92	1	98	109	11	109	109

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	289593-2
Date extracted	-			25/02/2022	1	25/02/2022	25/02/2022		25/02/2022	25/02/2022
Date analysed	-			28/02/2022	1	28/02/2022	28/02/2022		28/02/2022	28/02/2022
Naphthalene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	0.1	0	93	122
Acenaphthylene	mg/kg	0.1	Org-022/025	<0.1	1	0.3	0.3	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	93	129
Fluorene	mg/kg	0.1	Org-022/025	<0.1	1	0.2	0.2	0	95	130
Phenanthrene	mg/kg	0.1	Org-022/025	<0.1	1	1.5	1.9	24	98	#
Anthracene	mg/kg	0.1	Org-022/025	<0.1	1	0.5	0.7	33	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	<0.1	1	2.6	3.4	27	96	#
Pyrene	mg/kg	0.1	Org-022/025	<0.1	1	2.6	3.4	27	99	#
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	<0.1	1	1.6	2.0	22	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	<0.1	1	1.2	1.6	29	65	97
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	<0.2	1	2.3	3.0	26	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	<0.05	1	1.7	2.3	30	118	#
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	<0.1	1	0.8	1.1	32	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	<0.1	1	0.3	0.3	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	<0.1	1	0.9	1.3	36	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	99	1	102	100	2	94	97

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	289593-2
Date prepared	-			25/02/2022	1	25/02/2022	25/02/2022		25/02/2022	25/02/2022
Date analysed	-			25/02/2022	1	25/02/2022	25/02/2022		25/02/2022	25/02/2022
Arsenic	mg/kg	4	Metals-020	<4	1	4	5	22	97	76
Cadmium	mg/kg	0.4	Metals-020	<0.4	1	0.6	0.6	0	97	79
Chromium	mg/kg	1	Metals-020	<1	1	14	15	7	100	##
Copper	mg/kg	1	Metals-020	<1	1	81	100	21	96	#
Lead	mg/kg	1	Metals-020	<1	1	210	220	5	102	#
Mercury	mg/kg	0.1	Metals-021	<0.1	1	0.4	0.4	0	111	108
Nickel	mg/kg	1	Metals-020	<1	1	21	22	5	98	74
Zinc	mg/kg	1	Metals-020	<1	1	170	230	30	100	#

QUALITY CONTROL: sTRH in water leach						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			04/03/2022	1	04/03/2022	04/03/2022		04/03/2022	[NT]
Date analysed	-			04/03/2022	1	04/03/2022	04/03/2022		04/03/2022	[NT]
TRH C_{10} - C_{14}	µg/L	50	Org-020	<50	1	<50	<50	0	84	[NT]
TRH C_{15} - C_{28}	µg/L	100	Org-020	<100	1	<100	<100	0	97	[NT]
TRH C_{29} - C_{36}	µg/L	100	Org-020	<100	1	<100	<100	0	113	[NT]
TRH >C_{10} - C_{16}	µg/L	50	Org-020	<50	1	<50	<50	0	84	[NT]
TRH >C_{16} - C_{34}	µg/L	100	Org-020	<100	1	<100	<100	0	97	[NT]
TRH >C_{34} - C_{40}	µg/L	100	Org-020	<100	1	<100	<100	0	113	[NT]
Surrogate o-Terphenyl	%		Org-020	97	1	126	84	40	90	[NT]

QUALITY CONTROL: PAHs in Water Leach - Low Level						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	289593-5
Date extracted	-			04/03/2022	1	04/03/2022	04/03/2022		04/03/2022	04/03/2022
Date analysed	-			04/03/2022	1	04/03/2022	04/03/2022		04/03/2022	04/03/2022
Naphthalene	µg/L	0.1	Org-022/025 ASLP	<0.1	1	<0.1	<0.1	0	84	96
Acenaphthylene	µg/L	0.1	Org-022/025 ASLP	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-022/025 ASLP	<0.1	1	<0.1	<0.1	0	81	106
Fluorene	µg/L	0.1	Org-022/025 ASLP	<0.1	1	<0.1	<0.1	0	82	105
Phenanthrene	µg/L	0.1	Org-022/025 ASLP	<0.1	1	<0.1	<0.1	0	90	110
Anthracene	µg/L	0.1	Org-022/025 ASLP	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-022/025 ASLP	<0.1	1	<0.1	<0.1	0	82	98
Pyrene	µg/L	0.1	Org-022/025 ASLP	<0.1	1	<0.1	<0.1	0	85	102
Benzo(a)anthracene	µg/L	0.1	Org-022/025 ASLP	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Chrysene	µg/L	0.1	Org-022/025 ASLP	<0.1	1	<0.1	<0.1	0	71	71
Benzo(b,j+k)fluoranthene	µg/L	0.2	Org-022/025 ASLP	<0.2	1	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025 ASLP	<0.1	1	<0.1	<0.1	0	100	115
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-022/025 ASLP	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-022/025 ASLP	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-022/025 ASLP	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	103	1	105	103	2	108	94

QUALITY CONTROL: Metals from Neutral Leaching Fluid ICPMS						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	289593-2
Date extracted	-			04/03/2022	1	04/03/2022	04/03/2022		04/03/2022	04/03/2022
Date analysed	-			04/03/2022	1	04/03/2022	04/03/2022		04/03/2022	04/03/2022
Arsenic	µg/L	1	Metals-022	<1	1	<1	<1	0	101	97
Cadmium	µg/L	0.1	Metals-022	<0.1	1	1.1	0.7	44	103	100
Chromium	µg/L	1	Metals-022	<1	1	<1	<1	0	98	92
Copper	µg/L	1	Metals-022	<1	1	5	6	18	100	93
Lead	µg/L	1	Metals-022	<1	1	3	5	50	100	96
Mercury	µg/L	0.05	Metals-021	<0.05	1	<0.05	<0.05	0	112	96
Nickel	µg/L	1	Metals-022	<1	1	7	7	0	100	93
Zinc	µg/L	1	Metals-022	<1	1	47	56	17	103	98

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from “2018 TLVs and BEIs”, as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

PAHs in Soil - # Percent recovery for the matrix spike is not possible to report as the high concentration of analytes in sample 289593-2 has caused interference.

8 metals in soil:
- # Percent recovery is not applicable due to the high concentration of the element/s in the sample/s. However an acceptable recovery was obtained for the LCS.
- ## Percent recovery is not possible to report due to the inhomogeneous nature of the element/s in the sample/s. However an acceptable recovery was obtained for the LCS.

)10267

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 62236
PROJECT NAME: GREEN SQUARE Stages 3 & 4
DATE NEEDED BY: ASAP.

LABORATORY BATCH NO.:
SAMPLERS: BTF, PG, ST
QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) TERISKEN@jbsg.com.au; (3) PGORDON@jbsg.com.au STAN @...

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

ENVIROLAB – Eurofins to forward groundwater bottles for ASLP analysis please.

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH		Combo 3	ASLP (TRH*)	ASLP (OPAH - Low)	ASLP (OPAH - Mod/High)	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA
QC20220217-PG1	SOIL	17/2/22		Jar		1	X	X	X	X		
QC20220217-PG2						2	X	X	X	X		
QC20220217-PG3						3	X	X	X	X		
QC20220217-PG4						4	X	X	X	X		
QC20220217-PG5						5	X	X	X	X		
QC20220217-PG5 extra				NR			X	X	X	X		
QC20220217-PG6	6					6						
" 11 - PG7	7					7						

NOTES: * Semi to Non-Volatile TRH

Envirolab Services
Job No: 289593
Date Received: 23/02/22
Time Received: 1150
By: CR
Temp: Cool / Ambient — Icepack
Cooling: Ice / Ice-pack
Security: Intact / Broken — 15°C

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Tom Fisher DATE: 17/2/22	CONSIGNMENT NOTE NO.	NAME: Roseman	COOLER SEAL – Yes ✓ No ..... Intact ✓ Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 23/02/22	COOLER TEMP 15 deg C Icepack
NAME: DATE:	CONSIGNMENT NOTE NO.	OF: ELS Sydney	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	NAME: DATE: OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial); S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

SAMPLE RECEIPT ADVICE

Client Details

Client	JBS & G (NSW & WA) Pty Ltd
Attention	T Frisken

Sample Login Details

Your reference	62236, Green Square Stages 3 & 4
Envirolab Reference	289593
Date Sample Received	23/02/2022
Date Instructions Received	23/02/2022
Date Results Expected to be Reported	02/03/2022

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	7 Soil
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	15
Cooling Method	Ice Pack
Sampling Date Provided	YES

Comments

Extra samples received:
QC20220217-PG6
QC20220217-PG7

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	**Phone: 02 9910 6200**
Fax: 02 9910 6201	**Fax: 02 9910 6201**
Email: ahie@envirolab.com.au	**Email: jhurst@envirolab.com.au**

Analysis Underway, details on the following page:

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ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
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Sample ID	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Acid Extractable metalsin soil	ASLP Preparation - Elutriate	sTRH in water leach	PAHs in Water Leach - Low Level	Elutriate analysis	On Hold
QC20220217-PG1	✓	✓	✓	✓	✓	✓	✓	✓	
QC20220217-PG2	✓	✓	✓	✓	✓	✓	✓	✓	
QC20220217-PG3	✓	✓	✓	✓	✓	✓	✓	✓	
QC20220217-PG4	✓	✓	✓	✓	✓	✓	✓	✓	
QC20220217-PG5	✓	✓	✓	✓	✓	✓	✓	✓	
QC20220217-PG6	✓	✓	✓	✓	✓	✓	✓	✓	
QC20220217-PG7									✓

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.
Requests for longer term sample storage must be received in writing.
Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.
TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

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12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

CERTIFICATE OF ANALYSIS 289684

Client Details

Client	JBS & G (NSW & WA) Pty Ltd
Attention	T Frisken
Address	Level 1, 50 Margaret St, Sydney, NSW, 2000

Sample Details

Your Reference	**62236, Green Square 3 & 4 DGI**
Number of Samples	4 Soil
Date samples received	24/02/2022
Date completed instructions received	24/02/2022

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Report Details

Date results requested by	03/03/2022
Date of Issue	03/03/2022

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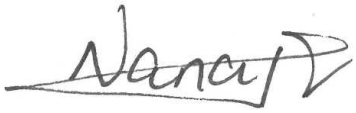
Accredited for compliance with ISO/IEC 17025 - Testing. **Tests not covered by NATA are denoted with ***

Results Approved By
Dragana Tomas, Senior Chemist
Hannah Nguyen, Metals Supervisor
Thomas Beenie, Lab Technician

Authorised By



Nancy Zhang, Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil			
Our Reference		289684-1	289684-3
Your Reference	UNITS	QC20220218-PG1	QC20220218-PG3
Date Sampled		18/02/2022	18/02/2022
Type of sample		Soil	Soil
Date extracted	-	25/02/2022	25/02/2022
Date analysed	-	25/02/2022	25/02/2022
TRH C_6 - C_9	mg/kg	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25
Benzene	mg/kg	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1
m+p-xylene	mg/kg	<2	<2
o-Xylene	mg/kg	<1	<1
Naphthalene	mg/kg	<1	<1
Total +ve Xylenes	mg/kg	<1	<1
Surrogate aaa-Trifluorotoluene	%	101	105

svTRH (C10-C40) in Soil			
Our Reference	UNITS	289684-1	289684-3
Your Reference		QC20220218-PG1	QC20220218-PG3
Date Sampled		18/02/2022	18/02/2022
Type of sample		Soil	Soil
Date extracted	-	25/02/2022	25/02/2022
Date analysed	-	25/02/2022	25/02/2022
TRH C_{10} - C_{14}	mg/kg	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	150
TRH C_{29} - C_{36}	mg/kg	<100	180
Total +ve TRH (C10-C36)	mg/kg	<50	320
TRH >C_{10} -C_{16}	mg/kg	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	290
TRH >C_{34} -C_{40}	mg/kg	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	290
Surrogate o-Terphenyl	%	94	98

PAHs in Soil			
Our Reference		289684-1	289684-3
Your Reference	UNITS	QC20220218-PG1	QC20220218-PG3
Date Sampled		18/02/2022	18/02/2022
Type of sample		Soil	Soil
Date extracted	-	25/02/2022	25/02/2022
Date analysed	-	28/02/2022	28/02/2022
Naphthalene	mg/kg	<0.1	0.1
Acenaphthylene	mg/kg	0.2	0.2
Acenaphthene	mg/kg	<0.1	0.3
Fluorene	mg/kg	0.1	0.3
Phenanthrene	mg/kg	1	2.5
Anthracene	mg/kg	0.3	0.8
Fluoranthene	mg/kg	1.7	3.4
Pyrene	mg/kg	1.6	3.4
Benzo(a)anthracene	mg/kg	0.9	2.0
Chrysene	mg/kg	0.7	1.5
Benzo(b,j+k)fluoranthene	mg/kg	1	2.8
Benzo(a)pyrene	mg/kg	1.0	2.2
Indeno(1,2,3-c,d)pyrene	mg/kg	0.5	1
Dibenzo(a,h)anthracene	mg/kg	0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	0.6	1.2
Total +ve PAH's	mg/kg	10	22
Benzo(a)pyrene TEQ calc (zero)	mg/kg	1.5	2.8
Benzo(a)pyrene TEQ calc(half)	mg/kg	1.5	2.8
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	1.5	2.9
Surrogate p-Terphenyl-d14	%	120	119

Acid Extractable metals in soil			
Our Reference		289684-1	289684-3
Your Reference	UNITS	QC20220218-PG1	QC20220218-PG3
Date Sampled		18/02/2022	18/02/2022
Type of sample		Soil	Soil
Date prepared	-	25/02/2022	25/02/2022
Date analysed	-	25/02/2022	25/02/2022
Arsenic	mg/kg	<4	7
Cadmium	mg/kg	<0.4	2
Chromium	mg/kg	8	14
Copper	mg/kg	36	110
Lead	mg/kg	76	250
Mercury	mg/kg	0.1	0.4
Nickel	mg/kg	4	17
Zinc	mg/kg	91	380

Moisture			
Our Reference		289684-1	289684-3
Your Reference	UNITS	QC20220218-PG1	QC20220218-PG3
Date Sampled		18/02/2022	18/02/2022
Type of sample		Soil	Soil
Date prepared	-	25/02/2022	25/02/2022
Date analysed	-	28/02/2022	28/02/2022
Moisture	%	9.9	12

ASLP Preparation - Neutral			
Our Reference		289684-1	289684-3
Your Reference	UNITS	QC20220218-PG1	QC20220218-PG3
Date Sampled		18/02/2022	18/02/2022
Type of sample		Soil	Soil
pH of Elutriate	pH units	5.8	5.8
pH of Elutriate after tumbling	pH units	6.5	6.5

sTRH in water leach			
Our Reference		289684-1	289684-3
Your Reference	UNITS	QC20220218-PG1	QC20220218-PG3
Date Sampled		18/02/2022	18/02/2022
Type of sample		Soil	Soil
Date extracted	-	03/03/2022	03/03/2022
Date analysed	-	03/03/2022	03/03/2022
TRH C_{10} - C_{14}	µg/L	<50	<50
TRH C_{15} - C_{28}	µg/L	<100	<100
TRH C_{29} - C_{36}	µg/L	<100	<100
TRH >C_{10} - C_{16}	µg/L	<50	<50
TRH >C_{16} - C_{34}	µg/L	<100	<100
TRH >C_{34} - C_{40}	µg/L	<100	<100
Surrogate o-Terphenyl	%	106	91

PAHs in Water Leach - Low Level			
Our Reference	UNITS	289684-1	289684-3
Your Reference		QC20220218-PG1	QC20220218-PG3
Date Sampled		18/02/2022	18/02/2022
Type of sample		Soil	Soil
Date extracted	-	03/03/2022	03/03/2022
Date analysed	-	03/03/2022	03/03/2022
Naphthalene	µg/L	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1
Surrogate p-Terphenyl-d14	%	95	95

Metals from Neutral Leaching Fluid ICPMS			
Our Reference	UNITS	289684-1	289684-3
Your Reference		QC20220218-PG1	QC20220218-PG3
Date Sampled		18/02/2022	18/02/2022
Type of sample		Soil	Soil
Date extracted	-	03/03/2022	03/03/2022
Date analysed	-	03/03/2022	03/03/2022
Arsenic	µg/L	<1	<1
Cadmium	µg/L	0.3	7.1
Chromium	µg/L	<1	<1
Copper	µg/L	1	8
Lead	µg/L	1	6
Mercury	µg/L	<0.05	<0.05
Nickel	µg/L	7	12
Zinc	µg/L	3	380

Method ID	Methodology Summary
Elutriate	A sediment is extracted 1:4 with site water and tumbled for 1 hour. The sample is then centrifuged and or filtered and analysed. Please see report comments for more information.
INORG-004	Toxicity Characteristic Leaching Procedure (TCLP) using Zero Headspace Extraction (zHE) using AS4439 and USEPA 1311.
Inorg-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
Metals-020	Determination of various metals by ICP-AES.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Metals-021	Determination of Mercury by Cold Vapour AAS following leaching using ultra high purity water, i.e. reagent water = CLASS 1, 2 & 4 from AS 4439.3.
Metals-022	Determination of various metals by ICP-MS following leaching using ultra high purity water, i.e. reagent water = CLASS 1, 2 & 4 from AS 4439.3.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.

Method ID	Methodology Summary
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS and/or GC-MS/MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013. For soil results:- 1. 'EQ PQL'values are assuming all contributing PAHs reported as <PQL are actually at the PQL. This is the most conservative approach and can give false positive TEQs given that PAHs that contribute to the TEQ calculation may not be present. 2. 'EQ zero'values are assuming all contributing PAHs reported as <PQL are zero. This is the least conservative approach and is more susceptible to false negative TEQs when PAHs that contribute to the TEQ calculation are present but below PQL. 3. 'EQ half PQL'values are assuming all contributing PAHs reported as <PQL are half the stipulated PQL. Hence a mid-point between the most and least conservative approaches above. Note, the Total +ve PAHs PQL is reflective of the lowest individual PQL and is therefore "Total +ve PAHs" is simply a sum of the positive individual PAHs.
Org-022/025 ASLP	ASLP Leachates are extracted with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			25/02/2022	[NT]	[NT]	[NT]	[NT]	25/02/2022	[NT]
Date analysed	-			25/02/2022	[NT]	[NT]	[NT]	[NT]	25/02/2022	[NT]
TRH C_6 - C_9	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	74	[NT]
TRH C_6 - C_{10}	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	74	[NT]
Benzene	mg/kg	0.2	Org-023	<0.2	[NT]	[NT]	[NT]	[NT]	75	[NT]
Toluene	mg/kg	0.5	Org-023	<0.5	[NT]	[NT]	[NT]	[NT]	76	[NT]
Ethylbenzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	75	[NT]
m+p-xylene	mg/kg	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	71	[NT]
o-Xylene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	70	[NT]
Naphthalene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	109	[NT]	[NT]	[NT]	[NT]	82	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			25/02/2022	[NT]	[NT]	[NT]	[NT]	25/02/2022	[NT]
Date analysed	-			25/02/2022	[NT]	[NT]	[NT]	[NT]	25/02/2022	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	94	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	87	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	127	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	94	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	87	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	127	[NT]
Surrogate o-Terphenyl	%		Org-020	92	[NT]	[NT]	[NT]	[NT]	109	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			25/02/2022	[NT]	[NT]	[NT]	[NT]	25/02/2022	[NT]
Date analysed	-			28/02/2022	[NT]	[NT]	[NT]	[NT]	28/02/2022	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	93	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	93	[NT]
Fluorene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	95	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	98	[NT]
Anthracene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	96	[NT]
Pyrene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	99	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	65	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	<0.05	[NT]	[NT]	[NT]	[NT]	118	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	99	[NT]	[NT]	[NT]	[NT]	94	[NT]

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			25/02/2022	[NT]	[NT]	[NT]	[NT]	25/02/2022	[NT]
Date analysed	-			25/02/2022	[NT]	[NT]	[NT]	[NT]	25/02/2022	[NT]
Arsenic	mg/kg	4	Metals-020	<4	[NT]	[NT]	[NT]	[NT]	97	[NT]
Cadmium	mg/kg	0.4	Metals-020	<0.4	[NT]	[NT]	[NT]	[NT]	97	[NT]
Chromium	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	100	[NT]
Copper	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	96	[NT]
Lead	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	102	[NT]
Mercury	mg/kg	0.1	Metals-021	<0.1	[NT]	[NT]	[NT]	[NT]	111	[NT]
Nickel	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	98	[NT]
Zinc	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	100	[NT]

QUALITY CONTROL: sTRH in water leach						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			03/03/2022	[NT]	[NT]	[NT]	[NT]	03/03/2022	[NT]
Date analysed	-			03/03/2022	[NT]	[NT]	[NT]	[NT]	03/03/2022	[NT]
TRH C_{10} - C_{14}	µg/L	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	85	[NT]
TRH C_{15} - C_{28}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	94	[NT]
TRH C_{29} - C_{36}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	109	[NT]
TRH >C_{10} - C_{16}	µg/L	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	85	[NT]
TRH >C_{16} - C_{34}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	94	[NT]
TRH >C_{34} - C_{40}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	109	[NT]
Surrogate o-Terphenyl	%		Org-020	97	[NT]	[NT]	[NT]	[NT]	86	[NT]

QUALITY CONTROL: PAHs in Water Leach - Low Level						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			03/03/2022	[NT]	[NT]	[NT]	[NT]	03/03/2022	[NT]
Date analysed	-			03/03/2022	[NT]	[NT]	[NT]	[NT]	03/03/2022	[NT]
Naphthalene	µg/L	0.1	Org-022/025 ASLP	<0.1	[NT]	[NT]	[NT]	[NT]	74	[NT]
Acenaphthylene	µg/L	0.1	Org-022/025 ASLP	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-022/025 ASLP	<0.1	[NT]	[NT]	[NT]	[NT]	79	[NT]
Fluorene	µg/L	0.1	Org-022/025 ASLP	<0.1	[NT]	[NT]	[NT]	[NT]	82	[NT]
Phenanthrene	µg/L	0.1	Org-022/025 ASLP	<0.1	[NT]	[NT]	[NT]	[NT]	90	[NT]
Anthracene	µg/L	0.1	Org-022/025 ASLP	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-022/025 ASLP	<0.1	[NT]	[NT]	[NT]	[NT]	86	[NT]
Pyrene	µg/L	0.1	Org-022/025 ASLP	<0.1	[NT]	[NT]	[NT]	[NT]	87	[NT]
Benzo(a)anthracene	µg/L	0.1	Org-022/025 ASLP	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chrysene	µg/L	0.1	Org-022/025 ASLP	<0.1	[NT]	[NT]	[NT]	[NT]	73	[NT]
Benzo(b,j+k)fluoranthene	µg/L	0.2	Org-022/025 ASLP	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025 ASLP	<0.1	[NT]	[NT]	[NT]	[NT]	90	[NT]
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-022/025 ASLP	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-022/025 ASLP	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-022/025 ASLP	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	83	[NT]	[NT]	[NT]	[NT]	80	[NT]

QUALITY CONTROL: Metals from Neutral Leaching Fluid ICPMS					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			03/03/2022	[NT]	[NT]	[NT]	[NT]	03/03/2022	[NT]
Date analysed	-			03/03/2022	[NT]	[NT]	[NT]	[NT]	03/03/2022	[NT]
Arsenic	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	98	[NT]
Cadmium	µg/L	0.1	Metals-022	<0.1	[NT]	[NT]	[NT]	[NT]	98	[NT]
Chromium	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	97	[NT]
Copper	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	97	[NT]
Lead	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	94	[NT]
Mercury	µg/L	0.05	Metals-021	<0.05	[NT]	[NT]	[NT]	[NT]	108	[NT]
Nickel	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	99	[NT]
Zinc	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	98	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from “2018 TLVs and BEIs”, as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Chain of Custody

JBS&G

PROJECT NO.: **62236**

PROJECT NAME: **Green Square Stages 3 & 4 DGI**

DATE NEEDED BY: **Std**

LABORATORY BATCH NO.:

SAMPLERS: **TF, PG, ST**

QC LEVEL: NEPM (2013)

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....tfrisken@jbsg.com.au; (3) .....pgordon@jbsg.com.au; (4).....stran@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

ENVIROLAB

ASLP Analysis to use supplied groundwater (MWS24 or MWS30)

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Suite B3	ASLP (TRH *)	ASLP (PAH – low)	ASLP (Metals)	HOLD	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES: * Semi to non-volatile TRH
1	QC20220218-PG1	Soil	18/2/22		Jars		X	X	X	X				
2	QC20220218-PG2	Soil	18/2/22		Jars						X			
3	QC20220218-PG3	Soil	18/2/22		Jars		X	X	X	X				
4	QC20220218-PG4	Soil	18/2/22		Jars						X			
5														
6														

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 259689

Date Received: 24/02/22

Time Received: 1250

Received By: CH

Temp: Cool/Ambient

Cooling: Ice/Icepack

Security: Intact/Broken

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Tom Frisken DATE: 18/2/22 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: Christine. DATE: 24/02/22 1250 OF: GCS4P	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP 6.0 deg C
NAME: DATE: OF:	CONSIGNMENT NOTE NO. TRANSPORT CO	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

SAMPLE RECEIPT ADVICE

Client Details

Client	JBS & G (NSW & WA) Pty Ltd
Attention	T Frisken

Sample Login Details

Your reference	62236, Green Square 3 & 4 DGI
Envirolab Reference	289684
Date Sample Received	24/02/2022
Date Instructions Received	24/02/2022
Date Results Expected to be Reported	03/03/2022

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	4 Soil
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	18
Cooling Method	Ice Pack
Sampling Date Provided	YES

Comments

Nil

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	**Phone: 02 9910 6200**
Fax: 02 9910 6201	**Fax: 02 9910 6201**
Email: ahie@envirolab.com.au	**Email: jhurst@envirolab.com.au**

Analysis Underway, details on the following page:

Envirolab Services Pty Ltd
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Sample ID	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Acid Extractable metalsin soil	ASLP Preparation - Neutral	sTRH in water leach	PAHs in Water Leach - Low Level	Metals from Neutral Leaching Fluid ICPMS	On Hold
QC20220218-PG1	✓	✓	✓	✓	✓	✓	✓	✓	
QC20220218-PG2									✓
QC20220218-PG3	✓	✓	✓	✓	✓	✓	✓	✓	
QC20220218-PG4									✓

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.
Requests for longer term sample storage must be received in writing.
Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.
TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

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www.envirolab.com.au

CERTIFICATE OF ANALYSIS 318798

Client Details

Client	JBS & G (NSW & WA) Pty Ltd
Attention	Aaron Smith
Address	Level 1, 50 Margaret St, Sydney, NSW, 2000

Sample Details

Your Reference	**62236 - Green Square Stage 34 AQ**
Number of Samples	4 Soil
Date samples received	16/03/2023
Date completed instructions received	16/03/2023

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	23/03/2023
Date of Issue	22/03/2023

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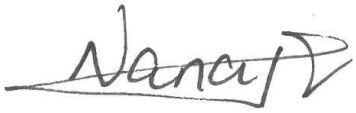
Accredited for compliance with ISO/IEC 17025 - Testing. **Tests not covered by NATA are denoted with ***

Asbestos Approved By
Analysed by Asbestos Approved Analyst: Stuart Chen
Authorised by Asbestos Approved Signatory: Lucy Zhu

Results Approved By
Lucy Zhu, Asbestos Supervisor

Authorised By



Nancy Zhang, Laboratory Manager

Asbestos ID - soils NEPM - ASB-001			
Our Reference		318798-2	318798-4
Your Reference	UNITS	QA02	QA04
Date Sampled		15/03/2023	15/03/2023
Type of sample		Soil	Soil
Date analysed	-	21/03/2023	21/03/2023
Sample mass tested	g	730.43	787.51
Sample Description	-	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–
FA and AF Estimation*	g	–	–
ACM >7mm Estimation*	%(w/w)	<0.01	<0.01
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001

Method ID	Methodology Summary
ASB-001	Asbestos ID - Qualitative identification of asbestos in bulk samples using Polarised Light Microscopy and Dispersion Staining Techniques including Synthetic Mineral Fibre and Organic Fibre as per Australian Standard 4964-2004.
ASB-001	Asbestos ID - Identification of asbestos in soil samples using Polarised Light Microscopy and Dispersion Staining Techniques. Minimum 500mL soil sample was analysed as recommended by "National Environment Protection (Assessment of site contamination) Measure, Schedule B1 and "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.1g/kg (0.01% w/w) as per Australian Standard AS4964-2004. Results reported denoted with * are outside our scope of NATA accreditation. **NOTE** #1 Total Asbestos g/kg was analysed and reported as per Australian Standard AS4964 (This is the sum of ACM >7mm, <7mm and FA/AF) **NOTE** #2 The screening level of 0.001% w/w asbestos in soil for FA and AF only applies where the FA and AF are able to be quantified by gravimetric procedures. This screening level is not applicable to free fibres. Estimation = Estimated asbestos weight Results reported with "--" is equivalent to no visible asbestos identified using Polarised Light microscopy and Dispersion Staining Techniques.

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Report Comments

Asbestos-ID in soil: NEPM
This report is consistent with the reporting recommendations in the National Environment Protection (Assessment of Site Contamination) Measure, Schedule B1, May 2013. This is reported outside our scope of NATA accreditation.

ENVIRO LAB

Chain of Custody

JBS&G

PROJECT NO.: 62236	LABORATORY BATCH NO.:
PROJECT NAME: GREEN SQUARE STAGE 3 & 4 AQ	SAMPLERS: LC, AH, SK, AS, MD
DATE NEEDED BY: STANDARD	QC LEVEL: NEPM (2013)

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) CDAGGER@jbsg.com.au; (3) AJSMITH@jbsg.com.au LCHU@JBSG.COM.AU; AHOLLAND@JBSG.COM.AU

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
1	QA01	SOIL	15/03/23		BAG.			X	
2	QA02	↓	↓	↓	↓			X	
3	QA03							X	
4	QA04							X	

ENVIROLAB

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 318798
Date Received: 16/03/23
Time Received: 1530
Received by: CH
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: LCHU DATE: 15/03/23	CONSIGNMENT NOTE NO.	NAME: Christine 1530	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 16/03/23 ESSYD	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

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www.envirolab.com.au

SAMPLE RECEIPT ADVICE

Client Details

Client	JBS & G (NSW & WA) Pty Ltd
Attention	Aaron Smith

Sample Login Details

Your reference	62236 - Green Square Stage 34 AQ
Envirolab Reference	318798
Date Sample Received	16/03/2023
Date Instructions Received	16/03/2023
Date Results Expected to be Reported	23/03/2023

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	4 Soil
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	24
Cooling Method	None
Sampling Date Provided	YES

Comments

Nil

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	**Phone: 02 9910 6200**
Fax: 02 9910 6201	**Fax: 02 9910 6201**
Email: ahie@envirolab.com.au	**Email: jhurst@envirolab.com.au**

Analysis Underway, details on the following page:

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Sample ID	Asbestos ID - soils NEPM - ASB-001
QA01	✓
QA02	✓
QA03	✓
QA04	✓

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.
Requests for longer term sample storage must be received in writing.
Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.
TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

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CERTIFICATE OF ANALYSIS 319142

Client Details

Client	JBS & G (NSW & WA) Pty Ltd
Attention	Aaron Smith
Address	Level 1, 50 Margaret St, Sydney, NSW, 2000

Sample Details

Your Reference	**62236 Green Square Stage 3&4 AQ**
Number of Samples	17 Soil
Date samples received	21/03/2023
Date completed instructions received	21/03/2023

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	28/03/2023
Date of Issue	28/03/2023

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Accredited for compliance with ISO/IEC 17025 - Testing. **Tests not covered by NATA are denoted with ***

Asbestos Approved By
Analysed by Asbestos Approved Analyst: Stuart Chen
Authorised by Asbestos Approved Signatory: Nyovan Moonean
Results Approved By
Nyovan Moonean, Asbestos Approved Identifier/Counter

Authorised By

Nancy Zhang, Laboratory Manager

Asbestos ID - soils NEPM - ASB-001						
Our Reference		319142-1	319142-2	319142-3	319142-4	319142-5
Your Reference	UNITS	QA05	QA06	QA07	QA08	QA09
Date Sampled		20/03/2023	20/03/2023	20/03/2023	20/03/2023	20/03/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	28/03/2023	28/03/2023	28/03/2023	28/03/2023	28/03/2023
Sample mass tested	g	713.44	685.1	745.64	727.11	622
Sample Description	-	Grey fine-grained soil & rocks	Brown fine-grained soil & rocks	Grey fine-grained soil & rocks	Brown fine-grained soil & rocks	Grey fine-grained soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	Chrysotile	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–	–	–
FA and AF Estimation*	g	–	–	–	0.0024	–
ACM >7mm Estimation*	%(w/w)	<0.01	<0.01	<0.01	<0.01	<0.01
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001	<0.001	<0.001

Asbestos ID - soils NEPM - ASB-001						
Our Reference		319142-6	319142-7	319142-8	319142-9	319142-10
Your Reference	UNITS	QA10	QA11	QA12	QA13	QA14
Date Sampled		20/03/2023	20/03/2023	20/03/2023	20/03/2023	20/03/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	28/03/2023	28/03/2023	28/03/2023	28/03/2023	28/03/2023
Sample mass tested	g	772.93	632.49	751.53	624.22	652.46
Sample Description	-	Beige coarse-grained soil & rocks	Grey fine-grained soil & rocks	Brown coarse-grained soil & rocks	Grey fine-grained soil & rocks	Grey coarse-grained soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	Chrysotile	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–	–	–
FA and AF Estimation*	g	–	–	–	0.0090	–
ACM >7mm Estimation*	%(w/w)	<0.01	<0.01	<0.01	<0.01	<0.01
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001	0.0014	<0.001

Asbestos ID - soils NEPM - ASB-001						
Our Reference		319142-11	319142-12	319142-13	319142-14	319142-15
Your Reference	UNITS	QA15	QA16	QA17	QA19	QA21
Date Sampled		20/03/2023	20/03/2023	20/03/2023	20/03/2023	20/03/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	28/03/2023	28/03/2023	28/03/2023	28/03/2023	28/03/2023
Sample mass tested	g	927.61	967.13	657.7	627.4	610.05
Sample Description	-	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown fine-grained soil & rocks	Brown fine-grained soil & rocks	Brown fine-grained soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	Chrysotile	No visible asbestos detected	No visible asbestos detected	Amosite
ACM >7mm Estimation*	g	–	–	–	–	–
FA and AF Estimation*	g	–	0.0053	–	–	0.0012
ACM >7mm Estimation*	%(w/w)	<0.01	<0.01	<0.01	<0.01	<0.01
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001	<0.001	<0.001

Asbestos ID - soils NEPM - ASB-001			
Our Reference		319142-16	319142-17
Your Reference	UNITS	QA18	QA20
Date Sampled		20/03/2023	20/03/2023
Type of sample		Soil	Soil
Date analysed	-	28/03/2023	28/03/2023
Sample mass tested	g	610.27	651.41
Sample Description	-	Brown fine-grained soil & rocks	Grey coarse-grained soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–
FA and AF Estimation*	g	–	–
ACM >7mm Estimation*	%(w/w)	<0.01	<0.01
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001

Method ID	Methodology Summary
ASB-001	Asbestos ID - Qualitative identification of asbestos in bulk samples using Polarised Light Microscopy and Dispersion Staining Techniques including Synthetic Mineral Fibre and Organic Fibre as per Australian Standard 4964-2004.
ASB-001	Asbestos ID - Identification of asbestos in soil samples using Polarised Light Microscopy and Dispersion Staining Techniques. Minimum 500mL soil sample was analysed as recommended by "National Environment Protection (Assessment of site contamination) Measure, Schedule B1 and "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.1g/kg (0.01% w/w) as per Australian Standard AS4964-2004. Results reported denoted with * are outside our scope of NATA accreditation. **NOTE** #1 Total Asbestos g/kg was analysed and reported as per Australian Standard AS4964 (This is the sum of ACM >7mm, <7mm and FA/AF) **NOTE** #2 The screening level of 0.001% w/w asbestos in soil for FA and AF only applies where the FA and AF are able to be quantified by gravimetric procedures. This screening level is not applicable to free fibres. Estimation = Estimated asbestos weight Results reported with "--" is equivalent to no visible asbestos identified using Polarised Light microscopy and Dispersion Staining Techniques.

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Report Comments

Asbestos-ID in soil: NEPM
This report is consistent with the reporting recommendations in the National Environment Protection (Assessment of Site Contamination) Measure, Schedule B1, May 2013. This is reported outside our scope of NATA accreditation.

Factual description of asbestos identified in the soil samples: NEPM
Sample 319142-4; Chrysotile asbestos identified in 0.0027g of loose fibre bundles

Sample 319142-9; Chrysotile asbestos identified in 0.0113 of fibrous matted material

Sample 319142-12; Chrysotile asbestos identified in 0.0053g of loose fibre bundles

Sample 319142-15; Amosite asbestos identified in 0.0012g of loose fibre bundles

ENVIROLABS.

Chain of Custody

JBS&G

PROJECT NO.: 62236	LABORATORY BATCH NO.:
PROJECT NAME: GREEN SQUARE STAGE 3 & 4 AQ	SAMPLERS: LC, AH, MD, CD, AS
DATE NEEDED BY: STANDARD	QC LEVEL: NEPM (2013)

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) CDAGGER@jbsg.com.au; (3) AJSMITH@jbsg.com.au LCHU@JBSG.COM.AU; AHOLLAND@JBSG.COM.AU

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID		MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
QA05	1	SOIL	20/3/23					X	
QA06	2							X	
QA07	3							X	
08	4							X	
09	5							X	
10	6							X	
11	7							X	
12	8							X	
13	9							X	
14	10							X	
15	11							X	
16	12							X	
17	13							X	
19	14							X	
21	15							X	
18	16							X	
20	17							X	

ENVIROLAB

Envirolab Services
17 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 319142

Date Received: 21/3

Time Received: 1600

Received By: MM

Temp: Cool/Ambient

Cooling: Ice/Icepack

Security: Intact/Broken/None

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: LCHU DATE: 20/03/23	CONSIGNMENT NOTE NO.	NAME: CMaceme DATE: 21/3	COOLER SEAL – Yes ..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	OF: Envirolab	COOLER TEMP 20. deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE: 1600	COOLER SEAL – Yes ..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

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12 Ashley St Chatswood NSW 2067
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customerservice@envirolab.com.au
www.envirolab.com.au

SAMPLE RECEIPT ADVICE

Client Details

Client	JBS & G (NSW & WA) Pty Ltd
Attention	Aaron Smith

Sample Login Details

Your reference	62236 Green Square Stage 3&4 AQ
Envirolab Reference	319142
Date Sample Received	21/03/2023
Date Instructions Received	21/03/2023
Date Results Expected to be Reported	28/03/2023

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	17 Soil
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	20
Cooling Method	None
Sampling Date Provided	YES

Comments

Nil

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	**Phone: 02 9910 6200**
Fax: 02 9910 6201	**Fax: 02 9910 6201**
Email: ahie@envirolab.com.au	**Email: jhurst@envirolab.com.au**

Analysis Underway, details on the following page:

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

Sample ID	Asbestos ID - soils NEPM - ASB-001
QA05	✓
QA06	✓
QA07	✓
QA08	✓
QA09	✓
QA10	✓
QA11	✓
QA12	✓
QA13	✓
QA14	✓
QA15	✓
QA16	✓
QA17	✓
QA19	✓
QA21	✓
QA18	✓
QA20	✓

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.
Requests for longer term sample storage must be received in writing.
Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.
TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

CERTIFICATE OF ANALYSIS 319308

Client Details

Client	JBS & G (NSW & WA) Pty Ltd
Attention	C Dagger
Address	Level 1, 50 Margaret St, Sydney, NSW, 2000

Sample Details

Your Reference	**62236 Green Square Stage 3&4**
Number of Samples	9 Soil
Date samples received	23/03/2023
Date completed instructions received	23/03/2023

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	30/03/2023
Date of Issue	30/03/2023

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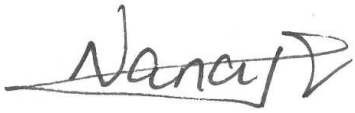
Accredited for compliance with ISO/IEC 17025 - Testing. **Tests not covered by NATA are denoted with ***

Asbestos Approved By
Analysed by Asbestos Approved Analyst: Lucy Zhu
Authorised by Asbestos Approved Signatory: Nyovan Moonean
Results Approved By
Nyovan Moonean, Asbestos Approved Identifier/Counter

Authorised By



Nancy Zhang, Laboratory Manager

Asbestos ID - soils NEPM - ASB-001						
Our Reference		319308-1	319308-2	319308-3	319308-4	319308-5
Your Reference	UNITS	QA31	QA33	QA26	QA28	QA23
Date Sampled		22/03/2023	22/03/2023	22/03/2023	22/03/2023	21/03/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	29/03/2023	29/03/2023	29/03/2023	29/03/2023	29/03/2023
Sample mass tested	g	689.83	384.96	731.27	674.52	536.5
Sample Description	-	Grey coarse-grained soil and rocks	Pink fine-grained soil and rocks	Grey coarse-grained soil and rocks	Grey coarse-grained soil and rocks	Brown fine-grained soil and rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–	–	–
FA and AF Estimation*	g	–	–	–	–	–
ACM >7mm Estimation*	%(w/w)	<0.01	<0.01	<0.01	<0.01	<0.01
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001	<0.001	<0.001

Asbestos ID - soils NEPM - ASB-001					
Our Reference		319308-6	319308-7	319308-8	319308-9
Your Reference	UNITS	QA29	QA27	QA22	QA24
Date Sampled		21/03/2023	21/03/2023	21/03/2023	21/03/2023
Type of sample		Soil	Soil	Soil	Soil
Date analysed	-	29/03/2023	29/03/2023	29/03/2023	29/03/2023
Sample mass tested	g	679.8	711.23	592.08	550.5
Sample Description	-	Brown fine-grained soil and rocks	Grey fine-grained soil and rocks	Grey fine-grained soil and rocks	Brown fine-grained soil and rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–	–
FA and AF Estimation*	g	–	–	–	–
ACM >7mm Estimation*	%(w/w)	<0.01	<0.01	<0.01	<0.01
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001	<0.001

Method ID	Methodology Summary
ASB-001	Asbestos ID - Qualitative identification of asbestos in bulk samples using Polarised Light Microscopy and Dispersion Staining Techniques including Synthetic Mineral Fibre and Organic Fibre as per Australian Standard 4964-2004.
ASB-001	Asbestos ID - Identification of asbestos in soil samples using Polarised Light Microscopy and Dispersion Staining Techniques. Minimum 500mL soil sample was analysed as recommended by "National Environment Protection (Assessment of site contamination) Measure, Schedule B1 and "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.1g/kg (0.01% w/w) as per Australian Standard AS4964-2004. Results reported denoted with * are outside our scope of NATA accreditation. **NOTE** #1 Total Asbestos g/kg was analysed and reported as per Australian Standard AS4964 (This is the sum of ACM >7mm, <7mm and FA/AF) **NOTE** #2 The screening level of 0.001% w/w asbestos in soil for FA and AF only applies where the FA and AF are able to be quantified by gravimetric procedures. This screening level is not applicable to free fibres. Estimation = Estimated asbestos weight Results reported with "--" is equivalent to no visible asbestos identified using Polarised Light microscopy and Dispersion Staining Techniques.

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Report Comments

Asbestos-ID in soil: NEPM
This report is consistent with the reporting recommendations in the National Environment Protection (Assessment of Site Contamination) Measure, Schedule B1, May 2013. This is reported outside our scope of NATA accreditation.

Note: All samples analysed as received. However, sample 319308-2 is below the minimum recommended 500mL sample volume as per National Environment Protection (Assessment of Site Contamination) Measure, Schedule B1, May 2013.

Chain of Custody

JBS&G

PROJECT NO.: 62236	LABORATORY BATCH NO.:
PROJECT NAME: Green Square Stages 3+4	SAMPLERS: LW + LC
DATE NEEDED BY: STD	QC LEVEL: NEPM (2013)

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) CDaggett@jbsg.com.au; (3) LChu@jbsg.com.au LWale@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID		MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
QA31	1	soil	22/3/23		asbestos bag			X	
QA33	2	↓	↓		↓			X	
QA26	3							X	
QA28	4		↓					X	
QA23	5		21/3					X	
QA29	6		↓					X	
QA27	7							X	
QA22	8							X	
QA24	9	↓	↓		↓			X	

ENVIROLAB
Envirolab Services
12 Ashley
Chatswood NSW 2067
PH: (02) 9910 6200

Job No: 319308

Date Received: 23/3/23
Time Received: 1130
Received By: LW
Temp: Cool/Ambient 20 °C
Cooling: Ice/Icepack
Security: Intact/Broken/None

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Lyndon DATE: 22/03/23	CONSIGNMENT NOTE NO.	NAME: LW DATE: 23/3 1130	COOLER SEAL – Yes ..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	OF: ENVIROLAB	COOLER TEMP 20 deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes ..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

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ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

SAMPLE RECEIPT ADVICE

Client Details

Client	JBS & G (NSW & WA) Pty Ltd
Attention	C Dagger

Sample Login Details

Your reference	62236 Green Square Stage 3&4
Envirolab Reference	319308
Date Sample Received	23/03/2023
Date Instructions Received	23/03/2023
Date Results Expected to be Reported	30/03/2023

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	9 Soil
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	20
Cooling Method	None
Sampling Date Provided	YES

Comments

Nil

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	**Phone: 02 9910 6200**
Fax: 02 9910 6201	**Fax: 02 9910 6201**
Email: ahie@envirolab.com.au	**Email: jhurst@envirolab.com.au**

Analysis Underway, details on the following page:

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

Sample ID	Asbestos ID - soils NEPM - ASB-001
QA31	✓
QA33	✓
QA26	✓
QA28	✓
QA23	✓
QA29	✓
QA27	✓
QA22	✓
QA24	✓

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.
Requests for longer term sample storage must be received in writing.
Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.
TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

010258

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 62236
PROJECT NAME: GREEN SQUARE Stages 3 & 4 DGI
DATE NEEDED BY:
PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) TFRISKEN@jbsg.com.au; (3) DGORDON@jbsg.com.au STRAN@...

LABORATORY BATCH NO.:
SAMPLERS: TF, PG, ST
QC LEVEL: NEPM (2013)

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:
ASLP to use 500mL groundwater samples supplied

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	B7	ASLP (TRH *)	ASLP (metals)	ASLP (PAH - low)	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
BH504_0.1	Soil	17/2/22		Jars								* Semi to Non-Volatile TRH
-0.5							X	X	X			
-1.0												
-1.5												
-2.0							X	X	X			
-2.5												
-3.0												
-3.5							X	X	X			
-4.0												
-4.5							X	X	X			
-5.0												
-5.5												
-6.0							X	X	X			
-6.5												
-7.0												
-7.5							X	X	X			
-8.0												
-8.5												
-9.0							X	X	X			

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DM Friskin DATE: 17/2/22 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C
NAME: DATE: OF:	CONSIGNMENT NOTE NO. TRANSPORT CO	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Generic

GIL, Syd. 18/2/22 4:40PM 22°C 865678 & 865680

010259

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: GREEN SQUARE Stages 3+4 DGI
PROJECT NAME: 62236
DATE NEEDED BY: Std
LABORATORY BATCH NO.:
SAMPLERS: TF, PG, ST
QC LEVEL: NEPM (2013)
PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) TFRISKEN@jbsg.com.au; (3) DGORDON@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:
ASLP to use supplied bottles

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	B7	ASLP (TRH*)	ASLP (PAH)	ASLP (metals)	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
B1/SO4 - 9.5	SOIL	17/2/22		Jars								* Semi to non-volatile TRH
- 10.0												
- 10.5							X	X	X			
- 11.0												
- 11.5												
- 12.0							X	X	X			
- 12.5												
- 13.0												
B1/S05 - 0.1												
- 0.5												
- 1.0												
- 1.5							X	X	X			
- 2.0												
- 2.5												
- 3.0							X	X	X			
- 3.5												
- 4.0												
- 4.5							X	X	X			
- 5.0												

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: TOM FRISKEN DATE: 17/2/22 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C
NAME: DATE: OF:	CONSIGNMENT NOTE NO. TRANSPORT CO	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

010260

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 62236
PROJECT NAME: GREEN SQUARE Stages 3 & 4 DSI
DATE NEEDED BY: Std.
LABORATORY BATCH NO.:
SAMPLERS: TF, PG, ST
QC LEVEL: NEPM (2013)
PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) TFRISKEN@jbsg.com.au; (3) PGORDON@jbsg.com.au STRAN @...

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

ASLP to use Supplied bottles

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	B7	ASLP (TRH *)	ASLP (PAH - 16)	ASLP (metals)	Hold	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
BH505_5.5	SOIL	17/2/22		Jars									* Semi to Non-volatile TRH
-6.0							X	X	X				
-6.5													
-7.0													
-7.5							X	X	X				
-8.0													
-8.5													
-9.0							X	X	X				
-9.5													
-10.0													
-10.5							X	X	X				
-11.0													
-11.5							X	X	X				
-12.0													
-12.5										X			
-13.0										X			

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Tom Frisken DATE: 17/2/22	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE:	
NAME: DATE:	CONSIGNMENT NOTE NO.	OF:	COOLER TEMP ..... deg C
OF:	TRANSPORT CO	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
		OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Generic

010261

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 62236
PROJECT NAME: GREEN SQUARE Stages 3 & 4 DGI
DATE NEEDED BY: Std.

LABORATORY BATCH NO.:
SAMPLERS: TF, DG, ST
QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) TFRISKEN@jbsg.com.au; (3) DGORDON@jbsg.com.au STRANG

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

ASLP to use Supplied groundwater

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	B7	ASLP (metals)	ASLP (TRH*)	ASLP (PAH+low)	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
BHS06 - 0.1	SOIL	17/2/22		Jars								
- 0.5												
- 1.0						X	X	X				
1.5												
2.0												
2.5						X	X	X				
3.0												
3.5												
4.0						X	X	X	X			
4.5												
5.0						X	X	X	X			
5.5												
6.0												
6.5						X	X	X	X			
7.0												
7.5												
8.0						X	X	X	X			
8.5												
9.0						X	X	X	X			

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Tom Frisken DATE: 17/2/22 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C
NAME: DATE: OF:	CONSIGNMENT NOTE NO. TRANSPORT CO	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

010262

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 62236
PROJECT NAME: GREEN SQUARE Stages 3 & 4 DGE
DATE NEEDED BY: Std.
LABORATORY BATCH NO.:
SAMPLERS: TF, PG, ST
QC LEVEL: NEPM (2013)
PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) TFRISKEN@jbsg.com.au; (3) PGORDON@jbsg.com.au STRANGE...

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

ASLP to use supplied groundwater

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	B7	ASLP (TRH *)	ASLP (BAH-10w)	ASLP (metals)	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
BH506_9.5	SOIL	17/2/22		Jars								* Send to non-volatile TRH
-10.0												
-10.5												
BH507_0.1												
-0.5												
-1.0						X	X	X	X			
-1.5												
-2.0						X	X	X	X			
-2.5												
-3.0												
-3.5						X	X	X	X			
-4.0												
-4.5												
-5.0						X	X	X	X			
-5.5												
-6.0												
-6.5						X	X	X	X			
-7.0												
-7.5						X	X	X	X			

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 17/2/22	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE:	
		OF:	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

010263

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 62236
PROJECT NAME: GREEN SQUARE Stages 3 & 4 DGI
DATE NEEDED BY: Std.
PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) TFRISKEN@jbsg.com.au; (3) DGORDON@jbsg.com.au STRAN Q. —

LABORATORY BATCH NO.:
SAMPLERS: TF, PG, ST.
QC LEVEL: NEPM (2013)

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:
ASLP to use supplied groundwater

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	37 ASLP (TRH*)	ASLP (DAH-low)	ASLP (metals)	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
BH507 – 8.0	SOIL	17/2/22		Jars							* Semi to non-volatile TRH
-8.5											
-9.0						X	X	X	X		
-9.5											
-10.0											
-10.5						X	X	X	X		
-11.0											
-11.5											
-12.0						X	X	X	X		
-12.5											
-13.0											
BH503 – 0.1											
-0.5						X	X	X	X		
-1.0											
-1.5											
-2.0						X	X	X	X		
-2.5											
-3.0											
-3.5						X	X	X	X		

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: T DUFFRISKEN DATE: 17/2/22 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C
NAME: DATE: OF:	CONSIGNMENT NOTE NO. TRANSPORT CO	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

010264

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 62236
PROJECT NAME: GREEN SQUARE Stages 3 & 4 DGI
DATE NEEDED BY: Std.

LABORATORY BATCH NO.:
SAMPLERS: TF, DG, ST
QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) TFRISKEN@jbsg.com.au; (3) DHORTON@jbsg.com.au STRANG@

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

ASLP to use supplied groundwater

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	B7	ASLP (TRH *)	ASLP (PAH - low)	ASLP (metals)	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
BH503_4.0	Soil	17/2/22		Jars								* Semi to non-volatile TRH
-4.5							X	X	X			
-5.0												
-5.5												
-6.0							X	X	X			
-6.5												
-7.0												
-7.5							X	X	X			
-8.0												
-8.5												
-9.0							X	X	X			
-9.5												
-10.0												
-10.5							X	X	X			
-11.0												
-11.5												
-12.0							X	X	X			
-12.5												

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Tom Frisken DATE: 17/2/22 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C
NAME: DATE: OF:	CONSIGNMENT NOTE NO. TRANSPORT CO	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

010265

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 62236
PROJECT NAME: GREEN SQUARE Stages 3 & 4 DGI
DATE NEEDED BY: Std.
LABORATORY BATCH NO.:
SAMPLERS: TF, DG, ST
QC LEVEL: NEPM (2013)
PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) TFRISKEN@jbsg.com.au; (3) DGORDON@jbsg.com.au JTRAN @

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:
ASLP to use supplied groundwater

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	B7	ASLP (TRH*)	ASLP (OH1-10m)	ASLP (metals)	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
BH502 – 0.1	SOIL	17/2/22		J								* Send to non-Volatile TRH
-0.5												
-1.0						X	X	X	X			
-1.5												
-2.0						X	X	X	X			
-2.5												
-3.0												
-3.5						X	X	X	X			
-4.0												
-4.5												
-5.0						X	X	X	X			
-5.5												
-6.0												
-6.5						X	X	X	X			
-7.0												
-7.5												
-8.0						X	X	X	X			
-8.5												
-9.0												

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Tom Frisken DATE: 17/2/22 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C
NAME: DATE: OF:	CONSIGNMENT NOTE NO. TRANSPORT CO	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

010268

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 62236
PROJECT NAME: GREEN SQUARE Stages 3&4 DGI
DATE NEEDED BY: Std

LABORATORY BATCH NO.:
SAMPLERS: TF, AT, ST
QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) TFRISKEN@jbsg.com.au; (3) ATHORSON@jbsg.com.au STRAN @...

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

ASLP to use supplied groundwater

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	B7	ASLP (TRH*)	ASLP (NH4-ion)	ASLP (metals)	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
BH502 - 9.5	SOIL	17/2/22		J		X	X	X	X			* Semi to non-volatile TRH
- 10.0												
- 10.5												
- 11.0						X	X	X	X			
- 11.5												
- 12.0												
- 12.5						X	X	X	X			
BH501 - 0.1												
- 0.5												
- 1.0						X	X	X	X			
- 1.5												
- 2.0												
- 2.5						X	X	X	X			
- 3.0												
- 3.5												
- 4.0						X	X	X	X			
- 4.5												
- 5.0												
- 5.5						X	X	X	X			

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Tom Frisken DATE: 17/2/22 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C
NAME: DATE: OF:	CONSIGNMENT NOTE NO. TRANSPORT CO	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Generic

010269

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 62236
PROJECT NAME: GREEN SQUARE Stages 3 & 4 DGI
DATE NEEDED BY: Std.
LABORATORY BATCH NO.:
SAMPLERS: TF, PG, ST.
QC LEVEL: NEPM (2013)
PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) TFRISKEN@jbsg.com.au; (3) DGORDON@jbsg.com.au STRAN @ . . .

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

ASLP to use Supplied groundwater

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	B7	ASLP (TRH*)	ASLP (OCP/OPP)	ASLP (Metals)	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
BH501 - 6.0	Soil	17/2/22		J								* Sent to non-Volatile TRH
- 6.5												
- 7.0						X	X	X	X			
- 7.5												
- 8.0												
- 8.5						X	X	X	X			
- 9.0												
- 9.5												
- 10.0						X	X	X	X			
- 10.5												
- 11.0												
- 11.5						X	X	X	X			
- 12.0												
BH500 - 0.1												
- 0.5						X	X	X	X			
- 1.0												
- 1.5												
- 2.0						X	X	X	X			
- 2.5												

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Tom Frisken DATE: 17/2/22	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE:	
NAME: DATE:	CONSIGNMENT NOTE NO.	OF:	COOLER TEMP ..... deg C
OF:	TRANSPORT CO	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
		OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

010270

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 62236
PROJECT NAME: GREEN SQUARE Stages 3&4 DGI
DATE NEEDED BY: Std.
LABORATORY BATCH NO.:
SAMPLERS: TF, PH, ST
QC LEVEL: NEPM (2013)
PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) TFRISKEN@jbsg.com.au; (3) DGORDON@jbsg.com.au STRAN

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:
ASLP to use Supplied groundwater

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	B7	ASLP (TRH *)	ASLP (VHC)	ASLP (metals)	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
BH500 - 3.0	Soil	17/2/22		J								* Demo to non-volatile TRH
-3.5							X	X	X			
-4.0												
-4.5												
-5.0							X	X	X			
-5.5												
-6.0												
-6.5							X	X	X			
-7.0												
-7.5												
-8.0							X	X	X			
-8.5												
-9.0												
-9.5							X	X	X			
-10.0												
-10.5												
-11.0							X	X	X			
-11.5												

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Tom Frisken DATE: 17/2/22 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C
NAME: DATE: OF:	CONSIGNMENT NOTE NO. TRANSPORT CO	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

010266

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 62236
PROJECT NAME: GREEN SQUARE Stages 3 & 4 DGI
DATE NEEDED BY: Std.
LABORATORY BATCH NO.:
SAMPLERS: TF, PG, ST
QC LEVEL: NEPM (2013)
PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) TERISKEN@jbsg.com.au; (3) PGORDON@jbsg.com.au STRAN

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL: Please forward QC samples to envirolab + 6 bottles
ASLP to use Supplied groundwater

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	B	ASLP (TRH *)	ASLP (PAH-16)	ASLP (metals)	BTEX	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
QA20220217-PG1	Soil	17/2/22		Jar		X	X	X	X				* Semi-volatile TRH
QA20220217-PG2	↓	↓		↓		X	X	X	X				
QA20220217_PG3						X	X	X	X				
QA20220217_PG4						X	X	X	X				
TS/TB	Water			Vials						X			
QA20220217-PG5	Soil			Jar		X	X	X	X				
QA20220217_PG6	↓	↓		↓		X	X	X	X				

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: TOM ERISKEN DATE: 17/2/22	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE:	
		OF:	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Generic

010267

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: b22236
PROJECT NAME: GREEN SQUARE Stages 3 & 4
DATE NEEDED BY: 10d.
LABORATORY BATCH NO.:
SAMPLERS: BTF, PG, ST
QC LEVEL: NEPM (2013)
PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) TFRISKEN@jbsg.com.au; (3) DGORDON@jbsg.com.au STRAN@...

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:
ENVIROLAB – Envirolab to forward groundwater bottles for ASLP analysis please.

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Combo 3	ASLP (TRH)*	ASLP (TRH-low)	ASLP (metals)	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
QC2022D217-PG1	SOIL	17/2/22		Jar		X	X	X	X			* Semi to non-volatile TRH
QC2022D217-PG2	↓	↓		↓		X	X	X	X			
QC2022D217-PG3						X	X	X	X			
QC2022D217-PG4						X	X	X	X			
QC2022D217-PG5						X	X	X	X			
QC2022D217-PG5						X	X	X	X			

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Tom Frisken DATE: 17/2/22	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE:	
NAME: DATE:	CONSIGNMENT NOTE NO.	OF:	COOLER TEMP ..... deg C
OF:	TRANSPORT CO	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
		OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Generic

eurofins | Environment Testing

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NATA # 1261 Site # 1254

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16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

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46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

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35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Tom Frisken
Project name:	GREEN SQUARE STAGE 3 AND 4 DSI
Project ID:	62236
Turnaround time:	5 Day
Date/Time received	Feb 18, 2022 4:40 PM
Eurofins reference	865678

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	Sample Temperature of chilled sample on the batch as recorded by Eurofins Sample Receipt : 22 degrees Celsius.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
✓	Split sample sent to requested external lab.
✗	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

BH506_10.5 JC not provided, sample ID 46230 from 865678 and 46768 from report 865680, continuation of 865678 will be cancelled as well. QA20220217_PG7 jar provided, not in COC, placed on hold. Please advice for analysis if any. 7 QC JARS and 7 Plastic bottles forwarded to Envirolab 23/2/22.

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Ursula Long on phone : or by email: UrsulaLong@eurofins.com

Results will be delivered electronically via email to Tom Frisken - tfrisken@jbsg.com.au.

Global Leader - Results you can trust

eurofins | Environment Testing

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
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NATA # 1261 Site # 1254

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Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
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Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
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35 O'Rorke Road
Penrose, Auckland 1061
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IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: GREEN SQUARE STAGE 3 AND 4 DSI
Project ID: 62236

Order No.:
Report #: 865678
Phone: 02 8245 0300
Fax:

Received: Feb 18, 2022 4:40 PM
Due: Mar 8, 2022
Priority: 5 Day
Contact Name: Tom Frisken

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						CANCELLED	HOLD	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	AUS Leaching Procedure	Metals M8	BTEX	Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Moisture Set	Eurofins Suite B7	BTEX	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA # 1261 Site # 1254																X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794																
Mayfield Laboratory - NATA # 1261 Site # 25079																
Perth Laboratory - NATA # 2377 Site # 2370																
External Laboratory																
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**											
1	BH504_0.5	Feb 17, 2022		Soil	S22-Fe46033								X	X		
2	BH504_2.0	Feb 17, 2022		Soil	S22-Fe46034								X	X		
3	BH504_3.5	Feb 17, 2022		Soil	S22-Fe46035								X	X		
4	BH504_4.5	Feb 17, 2022		Soil	S22-Fe46036								X	X		
5	BH504_6.0	Feb 17, 2022		Soil	S22-Fe46037								X	X		
6	BH504_7.5	Feb 17, 2022		Soil	S22-Fe46038								X	X		
7	BH504_9.0	Feb 17, 2022		Soil	S22-Fe46039								X	X		
8	BH504_10.5	Feb 17, 2022		Soil	S22-Fe46040								X	X		
9	BH504_12.0	Feb 17, 2022		Soil	S22-Fe46041								X	X		

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
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Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

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Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: GREEN SQUARE STAGE 3 AND 4 DSI
Project ID: 62236

Order No.:
Report #: 865678
Phone: 02 8245 0300
Fax:

Received: Feb 18, 2022 4:40 PM
Due: Mar 8, 2022
Priority: 5 Day
Contact Name: Tom Frisken

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						CANCELLED	HOLD	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	AUS Leaching Procedure	Metals M8	BTEX	Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Moisture Set	Eurofins Suite B7	BTEX	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA # 1261 Site # 1254																X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794																
Mayfield Laboratory - NATA # 1261 Site # 25079																
Perth Laboratory - NATA # 2377 Site # 2370																
External Laboratory																
10	BH505_1.5	Feb 17, 2022		Soil	S22-Fe46042								X	X		
11	BH505_3.0	Feb 17, 2022		Soil	S22-Fe46043								X	X		
12	BH505_4.5	Feb 17, 2022		Soil	S22-Fe46044								X	X		
13	BH505_6.0	Feb 17, 2022		Soil	S22-Fe46045								X	X		
14	BH505_7.5	Feb 17, 2022		Soil	S22-Fe46046								X	X		
15	BH505_9.0	Feb 17, 2022		Soil	S22-Fe46047								X	X		
16	BH505_10.5	Feb 17, 2022		Soil	S22-Fe46048								X	X		
17	BH505_11.5	Feb 17, 2022		Soil	S22-Fe46049								X	X		
18	BH506_1.0	Feb 17, 2022		Soil	S22-Fe46050								X	X		
19	BH506_2.5	Feb 17, 2022		Soil	S22-Fe46051								X	X		
20	BH506_4.0	Feb 17, 2022		Soil	S22-Fe46052								X	X		

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Melbourne Laboratory - NATA # 1261 Site # 1254																X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794																
Mayfield Laboratory - NATA # 1261 Site # 25079																
Perth Laboratory - NATA # 2377 Site # 2370																
External Laboratory																
21	BH506_5.0	Feb 17, 2022		Soil	S22-Fe46053								X	X		
22	BH506_6.5	Feb 17, 2022		Soil	S22-Fe46054								X	X		
23	BH506_8.0	Feb 17, 2022		Soil	S22-Fe46055								X	X		
24	BH506_9.0	Feb 17, 2022		Soil	S22-Fe46056								X	X		
25	BH507_0.5	Feb 17, 2022		Soil	S22-Fe46057								X	X		
26	BH507_1.5	Feb 17, 2022		Soil	S22-Fe46058								X	X		
27	BH507_3.0	Feb 17, 2022		Soil	S22-Fe46059								X	X		
28	BH507_4.5	Feb 17, 2022		Soil	S22-Fe46060								X	X		
29	BH507_6.0	Feb 17, 2022		Soil	S22-Fe46061								X	X		
30	BH507_7.5	Feb 17, 2022		Soil	S22-Fe46062								X	X		
31	BH507_9.0	Feb 17, 2022		Soil	S22-Fe46063								X	X		

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Melbourne Laboratory - NATA # 1261 Site # 1254																X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794																
Mayfield Laboratory - NATA # 1261 Site # 25079																
Perth Laboratory - NATA # 2377 Site # 2370																
External Laboratory																
32	BH507_10.5	Feb 17, 2022		Soil	S22-Fe46064								X	X		
33	BH507_12.0	Feb 17, 2022		Soil	S22-Fe46065								X	X		
34	BH503_0.5	Feb 17, 2022		Soil	S22-Fe46066								X	X		
35	BH503_2.0	Feb 17, 2022		Soil	S22-Fe46067								X	X		
36	BH503_3.5	Feb 17, 2022		Soil	S22-Fe46068								X	X		
37	BH503_5.0	Feb 17, 2022		Soil	S22-Fe46069								X	X		
38	BH503_6.5	Feb 17, 2022		Soil	S22-Fe46070								X	X		
39	BH503_8.0	Feb 17, 2022		Soil	S22-Fe46071								X	X		
40	BH503_9.5	Feb 17, 2022		Soil	S22-Fe46072								X	X		
41	BH503_11.0	Feb 17, 2022		Soil	S22-Fe46073								X	X		
42	BH503_12.5	Feb 17, 2022		Soil	S22-Fe46074								X	X		

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Melbourne Laboratory - NATA # 1261 Site # 1254																X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794																
Mayfield Laboratory - NATA # 1261 Site # 25079																
Perth Laboratory - NATA # 2377 Site # 2370																
External Laboratory																
43	BH502_1.0	Feb 17, 2022		Soil	S22-Fe46075								X	X		
44	BH502_2.0	Feb 17, 2022		Soil	S22-Fe46076								X	X		
45	BH502_3.5	Feb 17, 2022		Soil	S22-Fe46077								X	X		
46	BH502_5.0	Feb 17, 2022		Soil	S22-Fe46078								X	X		
47	BH502_6.5	Feb 17, 2022		Soil	S22-Fe46079								X	X		
48	BH502_8.0	Feb 17, 2022		Soil	S22-Fe46080								X	X		
49	BH502_9.5	Feb 17, 2022		Soil	S22-Fe46081								X	X		
50	BH502_11.0	Feb 17, 2022		Soil	S22-Fe46082								X	X		
51	BH502_12.5	Feb 17, 2022		Soil	S22-Fe46083								X	X		
52	BH501_1.0	Feb 17, 2022		Soil	S22-Fe46084								X	X		
53	BH501_2.5	Feb 17, 2022		Soil	S22-Fe46085								X	X		

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Melbourne Laboratory - NATA # 1261 Site # 1254																X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794																
Mayfield Laboratory - NATA # 1261 Site # 25079																
Perth Laboratory - NATA # 2377 Site # 2370																
External Laboratory																
54	BH501_4.0	Feb 17, 2022		Soil	S22-Fe46086								X	X		
55	BH501_5.5	Feb 17, 2022		Soil	S22-Fe46087								X	X		
56	BH501_7.0	Feb 17, 2022		Soil	S22-Fe46088								X	X		
57	BH501_8.5	Feb 17, 2022		Soil	S22-Fe46089								X	X		
58	BH501_10.0	Feb 17, 2022		Soil	S22-Fe46090								X	X		
59	BH501_11.5	Feb 17, 2022		Soil	S22-Fe46091								X	X		
60	BH500_0.5	Feb 17, 2022		Soil	S22-Fe46092								X	X		
61	BH500_2.0	Feb 17, 2022		Soil	S22-Fe46093								X	X		
62	BH500_3.5	Feb 17, 2022		Soil	S22-Fe46094								X	X		
63	BH500_5.0	Feb 17, 2022		Soil	S22-Fe46095								X	X		
64	BH500_6.5	Feb 17, 2022		Soil	S22-Fe46096								X	X		

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Melbourne Laboratory - NATA # 1261 Site # 1254																X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794																
Mayfield Laboratory - NATA # 1261 Site # 25079																
Perth Laboratory - NATA # 2377 Site # 2370																
External Laboratory																
65	BH500_8.0	Feb 17, 2022		Soil	S22-Fe46097								X	X		
66	BH500_9.5	Feb 17, 2022		Soil	S22-Fe46098								X	X		
67	BH500_11.0	Feb 17, 2022		Soil	S22-Fe46099								X	X		
68	QA20220217_PG1	Feb 17, 2022		Soil	S22-Fe46100								X	X		
69	QA20220217_PG2	Feb 17, 2022		Soil	S22-Fe46101								X	X		
70	QA20220217_PG3	Feb 17, 2022		Soil	S22-Fe46102								X	X		
71	QA20220217_PG4	Feb 17, 2022		Soil	S22-Fe46103								X	X		
72	QA20220217_	Feb 17, 2022		Soil	S22-Fe46104								X	X		

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Melbourne Laboratory - NATA # 1261 Site # 1254																X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794																
Mayfield Laboratory - NATA # 1261 Site # 25079																
Perth Laboratory - NATA # 2377 Site # 2370																
External Laboratory																
	PG5															
73	QA20220217_PG6	Feb 17, 2022		Soil	S22-Fe46105								X	X		
74	BH504_0.5	Feb 17, 2022		AUS Leachate	S22-Fe46106			X	X	X		X				X
75	BH504_2.0	Feb 17, 2022		AUS Leachate	S22-Fe46107			X	X	X		X				X
76	BH504_3.5	Feb 17, 2022		AUS Leachate	S22-Fe46108			X	X	X		X				X
77	BH504_4.5	Feb 17, 2022		AUS Leachate	S22-Fe46109			X	X	X		X				X
78	BH504_6.0	Feb 17, 2022		AUS Leachate	S22-Fe46110			X	X	X		X				X
79	BH504_7.5	Feb 17, 2022		AUS Leachate	S22-Fe46111			X	X	X		X				X
80	BH504_9.0	Feb 17, 2022		AUS Leachate	S22-Fe46112			X	X	X		X				X
81	BH504_10.5	Feb 17, 2022		AUS Leachate	S22-Fe46113			X	X	X		X				X

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Melbourne Laboratory - NATA # 1261 Site # 1254																X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794																
Mayfield Laboratory - NATA # 1261 Site # 25079																
Perth Laboratory - NATA # 2377 Site # 2370																
External Laboratory																
82	BH504_12.0	Feb 17, 2022		AUS Leachate	S22-Fe46114			X	X	X		X				X
83	BH505_1.5	Feb 17, 2022		AUS Leachate	S22-Fe46115			X	X	X		X				X
84	BH505_3.0	Feb 17, 2022		AUS Leachate	S22-Fe46116			X	X	X		X				X
85	BH505_4.5	Feb 17, 2022		AUS Leachate	S22-Fe46117			X	X	X		X				X
86	BH505_6.0	Feb 17, 2022		AUS Leachate	S22-Fe46118			X	X	X		X				X
87	BH505_7.5	Feb 17, 2022		AUS Leachate	S22-Fe46119			X	X	X		X				X
88	BH505_9.0	Feb 17, 2022		AUS Leachate	S22-Fe46120			X	X	X		X				X
89	BH505_10.5	Feb 17, 2022		AUS Leachate	S22-Fe46121			X	X	X		X				X
90	BH505_11.5	Feb 17, 2022		AUS Leachate	S22-Fe46122			X	X	X		X				X
91	BH506_1.0	Feb 17, 2022		AUS Leachate	S22-Fe46123			X	X	X		X				X
92	BH506_2.5	Feb 17, 2022		AUS Leachate	S22-Fe46124			X	X	X		X				X

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Company Name: JBS & G Australia (NSW) P/L
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Project Name: GREEN SQUARE STAGE 3 AND 4 DSI
Project ID: 62236

Order No.:
Report #: 865678
Phone: 02 8245 0300
Fax:

Received: Feb 18, 2022 4:40 PM
Due: Mar 8, 2022
Priority: 5 Day
Contact Name: Tom Frisken

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						CANCELLED	HOLD	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	AUS Leaching Procedure	Metals M8	BTEX	Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Moisture Set	Eurofins Suite B7	BTEX	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA # 1261 Site # 1254																X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794																
Mayfield Laboratory - NATA # 1261 Site # 25079																
Perth Laboratory - NATA # 2377 Site # 2370																
External Laboratory																
93	BH506_4.0	Feb 17, 2022		AUS Leachate	S22-Fe46125			X	X	X		X				X
94	BH506_5.0	Feb 17, 2022		AUS Leachate	S22-Fe46126			X	X	X		X				X
95	BH506_6.5	Feb 17, 2022		AUS Leachate	S22-Fe46127			X	X	X		X				X
96	BH506_8.0	Feb 17, 2022		AUS Leachate	S22-Fe46128			X	X	X		X				X
97	BH506_9.0	Feb 17, 2022		AUS Leachate	S22-Fe46129			X	X	X		X				X
98	BH507_0.5	Feb 17, 2022		AUS Leachate	S22-Fe46130			X	X	X		X				X
99	BH507_1.5	Feb 17, 2022		AUS Leachate	S22-Fe46131			X	X	X		X				X
100	BH507_3.0	Feb 17, 2022		AUS Leachate	S22-Fe46132			X	X	X		X				X
101	BH507_4.5	Feb 17, 2022		AUS Leachate	S22-Fe46133			X	X	X		X				X
102	BH507_6.0	Feb 17, 2022		AUS Leachate	S22-Fe46134			X	X	X		X				X
103	BH507_7.5	Feb 17, 2022		AUS Leachate	S22-Fe46135			X	X	X		X				X

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Contact Name: Tom Frisken

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Melbourne Laboratory - NATA # 1261 Site # 1254																X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794																
Mayfield Laboratory - NATA # 1261 Site # 25079																
Perth Laboratory - NATA # 2377 Site # 2370																
External Laboratory																
104	BH507_9.0	Feb 17, 2022		AUS Leachate	S22-Fe46136			X	X	X		X				X
105	BH507_10.5	Feb 17, 2022		AUS Leachate	S22-Fe46137			X	X	X		X				X
106	BH507_12.0	Feb 17, 2022		AUS Leachate	S22-Fe46138			X	X	X		X				X
107	BH503_0.5	Feb 17, 2022		AUS Leachate	S22-Fe46139			X	X	X		X				X
108	BH503_2.0	Feb 17, 2022		AUS Leachate	S22-Fe46140			X	X	X		X				X
109	BH503_3.5	Feb 17, 2022		AUS Leachate	S22-Fe46141			X	X	X		X				X
110	BH503_5.0	Feb 17, 2022		AUS Leachate	S22-Fe46142			X	X	X		X				X
111	BH503_6.5	Feb 17, 2022		AUS Leachate	S22-Fe46143			X	X	X		X				X
112	BH503_8.0	Feb 17, 2022		AUS Leachate	S22-Fe46144			X	X	X		X				X
113	BH503_9.5	Feb 17, 2022		AUS Leachate	S22-Fe46145			X	X	X		X				X
114	BH503_11.0	Feb 17, 2022		AUS Leachate	S22-Fe46146			X	X	X		X				X

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Eurofins Analytical Services Manager : Ursula Long

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Melbourne Laboratory - NATA # 1261 Site # 1254																X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794																
Mayfield Laboratory - NATA # 1261 Site # 25079																
Perth Laboratory - NATA # 2377 Site # 2370																
External Laboratory																
115	BH503_12.5	Feb 17, 2022		AUS Leachate	S22-Fe46147			X	X	X		X				X
116	BH502_1.0	Feb 17, 2022		AUS Leachate	S22-Fe46148			X	X	X		X				X
117	BH502_2.0	Feb 17, 2022		AUS Leachate	S22-Fe46149			X	X	X		X				X
118	BH502_3.5	Feb 17, 2022		AUS Leachate	S22-Fe46150			X	X	X		X				X
119	BH502_5.0	Feb 17, 2022		AUS Leachate	S22-Fe46151			X	X	X		X				X
120	BH502_6.5	Feb 17, 2022		AUS Leachate	S22-Fe46152			X	X	X		X				X
121	BH502_8.0	Feb 17, 2022		AUS Leachate	S22-Fe46153			X	X	X		X				X
122	BH502_9.5	Feb 17, 2022		AUS Leachate	S22-Fe46154			X	X	X		X				X
123	BH502_11.0	Feb 17, 2022		AUS Leachate	S22-Fe46155			X	X	X		X				X
124	BH502_12.5	Feb 17, 2022		AUS Leachate	S22-Fe46156			X	X	X		X				X
125	BH501_1.0	Feb 17, 2022		AUS Leachate	S22-Fe46157			X	X	X		X				X

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Project ID: 62236

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Priority: 5 Day
Contact Name: Tom Frisken

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						CANCELLED	HOLD	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	AUS Leaching Procedure	Metals M8	BTEX	Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Moisture Set	Eurofins Suite B7	BTEX	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA # 1261 Site # 1254																X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794																
Mayfield Laboratory - NATA # 1261 Site # 25079																
Perth Laboratory - NATA # 2377 Site # 2370																
External Laboratory																
126	BH501_2.5	Feb 17, 2022		AUS Leachate	S22-Fe46158			X	X	X		X				X
127	BH501_4.0	Feb 17, 2022		AUS Leachate	S22-Fe46159			X	X	X		X				X
128	BH501_5.5	Feb 17, 2022		AUS Leachate	S22-Fe46160			X	X	X		X				X
129	BH501_7.0	Feb 17, 2022		AUS Leachate	S22-Fe46161			X	X	X		X				X
130	BH501_8.5	Feb 17, 2022		AUS Leachate	S22-Fe46162			X	X	X		X				X
131	BH501_10.0	Feb 17, 2022		AUS Leachate	S22-Fe46163			X	X	X		X				X
132	BH501_11.5	Feb 17, 2022		AUS Leachate	S22-Fe46164			X	X	X		X				X
133	BH500_0.5	Feb 17, 2022		AUS Leachate	S22-Fe46165			X	X	X		X				X
134	BH500_2.0	Feb 17, 2022		AUS Leachate	S22-Fe46166			X	X	X		X				X
135	BH500_3.5	Feb 17, 2022		AUS Leachate	S22-Fe46167			X	X	X		X				X
136	BH500_5.0	Feb 17, 2022		AUS Leachate	S22-Fe46168			X	X	X		X				X

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Melbourne Laboratory - NATA # 1261 Site # 1254																X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794																
Mayfield Laboratory - NATA # 1261 Site # 25079																
Perth Laboratory - NATA # 2377 Site # 2370																
External Laboratory																
137	BH500_6.5	Feb 17, 2022		AUS Leachate	S22-Fe46169			X	X	X		X				X
138	BH500_8.0	Feb 17, 2022		AUS Leachate	S22-Fe46170			X	X	X		X				X
139	BH500_9.5	Feb 17, 2022		AUS Leachate	S22-Fe46171			X	X	X		X				X
140	BH500_11.0	Feb 17, 2022		AUS Leachate	S22-Fe46172			X	X	X		X				X
141	QA20220217_PG1	Feb 17, 2022		AUS Leachate	S22-Fe46173			X	X	X		X				X
142	QA20220217_PG2	Feb 17, 2022		AUS Leachate	S22-Fe46174			X	X	X		X				X
143	QA20220217_PG3	Feb 17, 2022		AUS Leachate	S22-Fe46175			X	X	X		X				X
144	QA20220217_PG4	Feb 17, 2022		AUS Leachate	S22-Fe46176			X	X	X		X				X

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Melbourne Laboratory - NATA # 1261 Site # 1254																X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794																
Mayfield Laboratory - NATA # 1261 Site # 25079																
Perth Laboratory - NATA # 2377 Site # 2370																
External Laboratory																
145	QA20220217_PG5	Feb 17, 2022		AUS Leachate	S22-Fe46177			X	X	X		X				X
146	QA20220217_PG6	Feb 17, 2022		AUS Leachate	S22-Fe46178			X	X	X		X				X
147	BH504_0.1	Feb 17, 2022		Soil	S22-Fe46179		X									
148	BH504_1.0	Feb 17, 2022		Soil	S22-Fe46180		X									
149	BH504_1.5	Feb 17, 2022		Soil	S22-Fe46181		X									
150	BH504_2.5	Feb 17, 2022		Soil	S22-Fe46182		X									
151	BH504_3.0	Feb 17, 2022		Soil	S22-Fe46183		X									
152	BH504_4.0	Feb 17, 2022		Soil	S22-Fe46184		X									
153	BH504_5.0	Feb 17, 2022		Soil	S22-Fe46185		X									

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Melbourne Laboratory - NATA # 1261 Site # 1254																X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794																
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Perth Laboratory - NATA # 2377 Site # 2370																
External Laboratory																
154	BH504_5.5	Feb 17, 2022		Soil	S22-Fe46186		X									
155	BH504_6.5	Feb 17, 2022		Soil	S22-Fe46187		X									
156	BH504_7.0	Feb 17, 2022		Soil	S22-Fe46188		X									
157	BH504_8.0	Feb 17, 2022		Soil	S22-Fe46189		X									
158	BH504_8.5	Feb 17, 2022		Soil	S22-Fe46190		X									
159	BH504_9.5	Feb 17, 2022		Soil	S22-Fe46191		X									
160	BH504_10.0	Feb 17, 2022		Soil	S22-Fe46192		X									
161	BH504_11.0	Feb 17, 2022		Soil	S22-Fe46193		X									
162	BH504_11.5	Feb 17, 2022		Soil	S22-Fe46194		X									
163	BH504_12.5	Feb 17, 2022		Soil	S22-Fe46195		X									
164	BH504_13.0	Feb 17, 2022		Soil	S22-Fe46196		X									

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
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NSW 2000

Project Name: GREEN SQUARE STAGE 3 AND 4 DSI
Project ID: 62236

Order No.:
Report #: 865678
Phone: 02 8245 0300
Fax:

Received: Feb 18, 2022 4:40 PM
Due: Mar 8, 2022
Priority: 5 Day
Contact Name: Tom Frisken

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						CANCELLED	HOLD	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	AUS Leaching Procedure	Metals M8	BTEX	Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Moisture Set	Eurofins Suite B7	BTEX	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA # 1261 Site # 1254																X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794																
Mayfield Laboratory - NATA # 1261 Site # 25079																
Perth Laboratory - NATA # 2377 Site # 2370																
External Laboratory																
165	BH505_0.1	Feb 17, 2022		Soil	S22-Fe46197		X									
166	BH505_0.5	Feb 17, 2022		Soil	S22-Fe46198		X									
167	BH505_1.0	Feb 17, 2022		Soil	S22-Fe46199		X									
168	BH505_2.0	Feb 17, 2022		Soil	S22-Fe46200		X									
169	BH505_2.5	Feb 17, 2022		Soil	S22-Fe46201		X									
170	BH505_3.5	Feb 17, 2022		Soil	S22-Fe46202		X									
171	BH505_4.0	Feb 17, 2022		Soil	S22-Fe46203		X									
172	BH505_5.0	Feb 17, 2022		Soil	S22-Fe46204		X									
173	BH505_5.5	Feb 17, 2022		Soil	S22-Fe46205		X									
174	BH505_6.5	Feb 17, 2022		Soil	S22-Fe46206		X									
175	BH505_7.0	Feb 17, 2022		Soil	S22-Fe46207		X									

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Melbourne Laboratory - NATA # 1261 Site # 1254																X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794																
Mayfield Laboratory - NATA # 1261 Site # 25079																
Perth Laboratory - NATA # 2377 Site # 2370																
External Laboratory																
176	BH505_8.0	Feb 17, 2022		Soil	S22-Fe46208		X									
177	BH505_8.5	Feb 17, 2022		Soil	S22-Fe46209		X									
178	BH505_9.5	Feb 17, 2022		Soil	S22-Fe46210		X									
179	BH505_10.0	Feb 17, 2022		Soil	S22-Fe46211		X									
180	BH505_11.0	Feb 17, 2022		Soil	S22-Fe46212		X									
181	BH505_12.0	Feb 17, 2022		Soil	S22-Fe46213		X									
182	BH505_12.5	Feb 17, 2022		Soil	S22-Fe46214		X									
183	BH505_13.0	Feb 17, 2022		Soil	S22-Fe46215		X									
184	BH506_0.1	Feb 17, 2022		Soil	S22-Fe46216		X									
185	BH506_0.5	Feb 17, 2022		Soil	S22-Fe46217		X									
186	BH506_1.5	Feb 17, 2022		Soil	S22-Fe46218		X									

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Melbourne Laboratory - NATA # 1261 Site # 1254																X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794																
Mayfield Laboratory - NATA # 1261 Site # 25079																
Perth Laboratory - NATA # 2377 Site # 2370																
External Laboratory																
187	BH506_2.0	Feb 17, 2022		Soil	S22-Fe46219		X									
188	BH506_3.0	Feb 17, 2022		Soil	S22-Fe46220		X									
189	BH506_3.5	Feb 17, 2022		Soil	S22-Fe46221		X									
190	BH506_4.5	Feb 17, 2022		Soil	S22-Fe46222		X									
191	BH506_5.5	Feb 17, 2022		Soil	S22-Fe46223		X									
192	BH506_6.0	Feb 17, 2022		Soil	S22-Fe46224		X									
193	BH506_7.0	Feb 17, 2022		Soil	S22-Fe46225		X									
194	BH506_7.5	Feb 17, 2022		Soil	S22-Fe46226		X									
195	BH506_8.5	Feb 17, 2022		Soil	S22-Fe46227		X									
196	BH506_9.5	Feb 17, 2022		Soil	S22-Fe46228		X									
197	BH506_10.0	Feb 17, 2022		Soil	S22-Fe46229		X									

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Eurofins Analytical Services Manager : Ursula Long

Sample Detail						CANCELLED	HOLD	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	AUS Leaching Procedure	Metals M8	BTEX	Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Moisture Set	Eurofins Suite B7	BTEX	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA # 1261 Site # 1254																X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794																
Mayfield Laboratory - NATA # 1261 Site # 25079																
Perth Laboratory - NATA # 2377 Site # 2370																
External Laboratory																
198	BH506_10.5	Feb 17, 2022		Soil	S22-Fe46230	X										
199	BH507_0.1	Feb 17, 2022		Soil	S22-Fe46231		X									
200	BH507_1.0	Feb 17, 2022		Soil	S22-Fe46232		X									
201	BH507_2.0	Feb 17, 2022		Soil	S22-Fe46233		X									
202	BH507_2.5	Feb 17, 2022		Soil	S22-Fe46234		X									
203	BH507_3.5	Feb 17, 2022		Soil	S22-Fe46235		X									
204	BH507_4.0	Feb 17, 2022		Soil	S22-Fe46236		X									
205	BH507_5.0	Feb 17, 2022		Soil	S22-Fe46237		X									
206	BH507_5.5	Feb 17, 2022		Soil	S22-Fe46238		X									
207	BH507_6.5	Feb 17, 2022		Soil	S22-Fe46239		X									
208	BH507_7.0	Feb 17, 2022		Soil	S22-Fe46240		X									

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Melbourne Laboratory - NATA # 1261 Site # 1254																X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794																
Mayfield Laboratory - NATA # 1261 Site # 25079																
Perth Laboratory - NATA # 2377 Site # 2370																
External Laboratory																
209	BH507_8.0	Feb 17, 2022		Soil	S22-Fe46241		X									
210	BH507_8.5	Feb 17, 2022		Soil	S22-Fe46242		X									
211	BH507_9.5	Feb 17, 2022		Soil	S22-Fe46243		X									
212	BH507_10.0	Feb 17, 2022		Soil	S22-Fe46244		X									
213	BH507_11.0	Feb 17, 2022		Soil	S22-Fe46245		X									
214	BH507_11.5	Feb 17, 2022		Soil	S22-Fe46246		X									
215	BH507_12.5	Feb 17, 2022		Soil	S22-Fe46247		X									
216	BH507_13.0	Feb 17, 2022		Soil	S22-Fe46248		X									
217	BH503_0.1	Feb 17, 2022		Soil	S22-Fe46249		X									
218	BH503_1.0	Feb 17, 2022		Soil	S22-Fe46250		X									
219	BH503_1.5	Feb 17, 2022		Soil	S22-Fe46251		X									

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Melbourne Laboratory - NATA # 1261 Site # 1254																X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794																
Mayfield Laboratory - NATA # 1261 Site # 25079																
Perth Laboratory - NATA # 2377 Site # 2370																
External Laboratory																
220	BH503_2.5	Feb 17, 2022		Soil	S22-Fe46252		X									
221	BH503_3.0	Feb 17, 2022		Soil	S22-Fe46253		X									
222	BH503_4.0	Feb 17, 2022		Soil	S22-Fe46254		X									
223	BH503_4.5	Feb 17, 2022		Soil	S22-Fe46255		X									
224	BH503_5.5	Feb 17, 2022		Soil	S22-Fe46256		X									
225	BH503_6.0	Feb 17, 2022		Soil	S22-Fe46257		X									
226	BH503_7.0	Feb 17, 2022		Soil	S22-Fe46258		X									
227	BH503_7.5	Feb 17, 2022		Soil	S22-Fe46259		X									
228	BH503_8.5	Feb 17, 2022		Soil	S22-Fe46260		X									
229	BH503_9.0	Feb 17, 2022		Soil	S22-Fe46261		X									
230	BH503_10.0	Feb 17, 2022		Soil	S22-Fe46262		X									

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Melbourne Laboratory - NATA # 1261 Site # 1254																X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794																
Mayfield Laboratory - NATA # 1261 Site # 25079																
Perth Laboratory - NATA # 2377 Site # 2370																
External Laboratory																
231	BH503_10.5	Feb 17, 2022		Soil	S22-Fe46263		X									
232	BH503_11.5	Feb 17, 2022		Soil	S22-Fe46264		X									
233	BH503_12.0	Feb 17, 2022		Soil	S22-Fe46265		X									
234	BH502_0.1	Feb 17, 2022		Soil	S22-Fe46266		X									
235	BH502_0.5	Feb 17, 2022		Soil	S22-Fe46267		X									
236	BH502_1.5	Feb 17, 2022		Soil	S22-Fe46268		X									
237	BH502_2.5	Feb 17, 2022		Soil	S22-Fe46269		X									
238	BH502_3.0	Feb 17, 2022		Soil	S22-Fe46270		X									
239	BH502_4.0	Feb 17, 2022		Soil	S22-Fe46271		X									
240	BH502_4.5	Feb 17, 2022		Soil	S22-Fe46272		X									
241	BH502_5.5	Feb 17, 2022		Soil	S22-Fe46273		X									

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NATA # 1261 Site # 20794

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
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Project Name: GREEN SQUARE STAGE 3 AND 4 DSI
Project ID: 62236

Order No.:
Report #: 865678
Phone: 02 8245 0300
Fax:

Received: Feb 18, 2022 4:40 PM
Due: Mar 8, 2022
Priority: 5 Day
Contact Name: Tom Frisken

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						CANCELLED	HOLD	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	AUS Leaching Procedure	Metals M8	BTEX	Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Moisture Set	Eurofins Suite B7	BTEX	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA # 1261 Site # 1254																X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794																
Mayfield Laboratory - NATA # 1261 Site # 25079																
Perth Laboratory - NATA # 2377 Site # 2370																
External Laboratory																
242	BH502_6.0	Feb 17, 2022		Soil	S22-Fe46274		X									
243	BH502_7.0	Feb 17, 2022		Soil	S22-Fe46275		X									
244	BH502_7.5	Feb 17, 2022		Soil	S22-Fe46276		X									
245	BH502_8.5	Feb 17, 2022		Soil	S22-Fe46277		X									
246	BH502_9.0	Feb 17, 2022		Soil	S22-Fe46278		X									
247	BH502_10.0	Feb 17, 2022		Soil	S22-Fe46279		X									
248	BH502_10.5	Feb 17, 2022		Soil	S22-Fe46280		X									
249	BH502_11.5	Feb 17, 2022		Soil	S22-Fe46281		X									
250	BH502_12.0	Feb 17, 2022		Soil	S22-Fe46282		X									
251	BH501_0.1	Feb 17, 2022		Soil	S22-Fe46283		X									
252	BH501_0.5	Feb 17, 2022		Soil	S22-Fe46284		X									

eurofins | Environment Testing

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: GREEN SQUARE STAGE 3 AND 4 DSI
Project ID: 62236

Order No.:
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Received: Feb 18, 2022 4:40 PM
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Contact Name: Tom Frisken

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						CANCELLED	HOLD	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	AUS Leaching Procedure	Metals M8	BTEX	Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Moisture Set	Eurofins Suite B7	BTEX	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA # 1261 Site # 1254																X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794																
Mayfield Laboratory - NATA # 1261 Site # 25079																
Perth Laboratory - NATA # 2377 Site # 2370																
External Laboratory																
253	BH501_1.5	Feb 17, 2022		Soil	S22-Fe46285		X									
254	TRIP SPIKE	Feb 17, 2022		Water	S22-Fe46316										X	
255	TRIP BLANK	Feb 17, 2022		Water	S22-Fe46317						X					
Test Counts						1	106	73	73	73	1	73	73	73	1	73

JBS & G Australia (NSW) P/L
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Sydney
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NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: **Tom Frisken**

Report **865678-S**
Project name GREEN SQUARE STAGE 3 AND 4 DSI
Project ID 62236
Received Date Feb 18, 2022

Client Sample ID			[G01]**BH504_0.5**	[G01]**BH504_2.0**	[G01]**BH504_3.5**	[G01]**BH504_4.5**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**S22-Fe46033**	**S22-Fe46034**	**S22-Fe46035**	**S22-Fe46036**
Date Sampled			**Feb 17, 2022**	**Feb 17, 2022**	**Feb 17, 2022**	**Feb 17, 2022**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 40	< 40	< 40	< 40
TRH C15-C28	50	mg/kg	160	1100	300	350
TRH C29-C36	50	mg/kg	300	220	300	< 100
TRH C10-C36 (Total)	50	mg/kg	460	1320	600	350
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 100	< 100	< 100	< 100
TRH >C16-C34	100	mg/kg	360	1400	500	480
TRH >C34-C40	100	mg/kg	340	360	270	< 200
TRH >C10-C40 (total)*	100	mg/kg	700	1760	770	480
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	83	102	113	93
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	22	4.4	2.6
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	22	4.7	2.9
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	22	4.9	3.1
Acenaphthene	0.5	mg/kg	< 0.5	0.6	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	1.0	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	3.6	0.6	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	12	2.7	1.6
Benzo(a)pyrene	0.5	mg/kg	< 0.5	15	3.4	2.0
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	9.6	2.4	1.4
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	7.0	1.5	0.9
Benzo(k)fluoranthene	0.5	mg/kg	0.5	14	3.2	2.2
Chrysene	0.5	mg/kg	0.6	12	2.9	1.8
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	2.2	< 0.5	< 0.5

Client Sample ID			[G01]BH504_0.5	[G01]BH504_2.0	[G01]BH504_3.5	[G01]BH504_4.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Fe46033	S22-Fe46034	S22-Fe46035	S22-Fe46036
Date Sampled			Feb 17, 2022	Feb 17, 2022	Feb 17, 2022	Feb 17, 2022
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Fluoranthene	0.5	mg/kg	0.9	24	5.2	3.1
Fluorene	0.5	mg/kg	< 0.5	1.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	7.4	1.6	0.9
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	0.5	14	3.9	1.8
Pyrene	0.5	mg/kg	0.9	24	5.5	3.0
Total PAH*	0.5	mg/kg	3.4	147.9	32.9	18.7
2-Fluorobiphenyl (surr.)	1	%	109	119	118	111
p-Terphenyl-d14 (surr.)	1	%	98	97	94	94
Heavy Metals						
Arsenic	2	mg/kg	3.8	3.4	4.4	6.4
Cadmium	0.4	mg/kg	< 0.4	< 0.4	0.6	1.2
Chromium	5	mg/kg	28	13	38	24
Copper	5	mg/kg	71	65	130	210
Lead	5	mg/kg	51	230	260	470
Mercury	0.1	mg/kg	< 0.1	0.2	0.3	0.3
Nickel	5	mg/kg	19	8.8	27	24
Zinc	5	mg/kg	110	140	230	580
% Moisture	1	%	12	11	11	21

Client Sample ID			[G01]BH504_6.0	BH504_7.5	[G01]BH504_9.0	BH504_10.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Fe46037	S22-Fe46038	S22-Fe46039	S22-Fe46040
Date Sampled			Feb 17, 2022	Feb 17, 2022	Feb 17, 2022	Feb 17, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 40	< 20	< 40	< 20
TRH C15-C28	50	mg/kg	500	85	1700	170
TRH C29-C36	50	mg/kg	390	< 50	180	98
TRH C10-C36 (Total)	50	mg/kg	890	85	1880	268
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 100	< 50	< 100	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 100	< 50	< 100	< 50
TRH >C16-C34	100	mg/kg	790	130	2000	270
TRH >C34-C40	100	mg/kg	270	< 100	< 200	< 100
TRH >C10-C40 (total)*	100	mg/kg	1060	130	2000	270
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	92	75	144	149

Client Sample ID			[G01]BH504_6.0	BH504_7.5	[G01]BH504_9.0	BH504_10.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Fe46037	S22-Fe46038	S22-Fe46039	S22-Fe46040
Date Sampled			Feb 17, 2022	Feb 17, 2022	Feb 17, 2022	Feb 17, 2022
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	4.2	2.5	37	1.1
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	4.5	2.7	37	1.4
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	4.7	3.0	37	1.6
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	1.8	< 0.5
Anthracene	0.5	mg/kg	0.8	< 0.5	25	1.1
Benz(a)anthracene	0.5	mg/kg	3.2	1.5	35	1.0
Benzo(a)pyrene	0.5	mg/kg	3.2	1.9	25	0.8
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	2.0	1.3	14	0.8
Benzo(g.h.i)perylene	0.5	mg/kg	1.3	1.1	8.8	0.6
Benzo(k)fluoranthene	0.5	mg/kg	3.1	1.7	21	0.9
Chrysene	0.5	mg/kg	3.7	< 2	32	1.8
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	3.7	< 0.5
Fluoranthene	0.5	mg/kg	6.2	2.8	84	2.4
Fluorene	0.5	mg/kg	< 0.5	< 0.5	7.1	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	1.3	0.9	8.9	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	3.4	1.0	78	2.2
Pyrene	0.5	mg/kg	6.5	2.7	75	2.1
Total PAH*	0.5	mg/kg	34.7	14.9	419.3	13.7
2-Fluorobiphenyl (surr.)	1	%	109	124	122	114
p-Terphenyl-d14 (surr.)	1	%	88	90	114	90
Heavy Metals						
Arsenic	2	mg/kg	12	32	14	19
Cadmium	0.4	mg/kg	1.5	1.3	0.6	0.6
Chromium	5	mg/kg	23	41	21	25
Copper	5	mg/kg	360	2900	420	250
Lead	5	mg/kg	840	2800	500	560
Mercury	0.1	mg/kg	0.4	0.5	0.3	0.2
Nickel	5	mg/kg	26	320	18	26
Zinc	5	mg/kg	760	1400	510	630
% Moisture	1	%	22	24	19	26

Client Sample ID			BH504_12.0	BH505_1.5	BH505_3.0	BH505_4.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Fe46041	S22-Fe46042	S22-Fe46043	S22-Fe46044
Date Sampled			Feb 17, 2022	Feb 17, 2022	Feb 17, 2022	Feb 17, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	110	220	180	200
TRH C29-C36	50	mg/kg	< 50	130	< 50	110
TRH C10-C36 (Total)	50	mg/kg	110	350	180	310
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20

Client Sample ID			BH504_12.0	BH505_1.5	BH505_3.0	BH505_4.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Fe46041	S22-Fe46042	S22-Fe46043	S22-Fe46044
Date Sampled			Feb 17, 2022	Feb 17, 2022	Feb 17, 2022	Feb 17, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	170	330	250	300
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	170	330	250	300
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	78	76	148	51
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	2.9	2.5	3.0
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.7	3.2	2.8	3.0
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	3.5	3.0	3.0
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	1.5	1.6	0.9
Benz(a)anthracene	0.5	mg/kg	0.5	3.0	2.3	2.1
Benzo(a)pyrene	0.5	mg/kg	< 0.5	2.1	1.9	1.8
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	2.1	1.2	1.2
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	1.8	1.4	1.2
Benzo(k)fluoranthene	0.5	mg/kg	0.7	2.6	1.8	1.9
Chrysene	0.5	mg/kg	1.1	4.9	3.7	3.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.5
Fluoranthene	0.5	mg/kg	0.9	6.0	3.8	3.7
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	1.0
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	0.5	5.2	3.5	2.4
Pyrene	0.5	mg/kg	1.0	6.7	4.0	3.6
Total PAH*	0.5	mg/kg	4.7	35.9	25.2	23.8
2-Fluorobiphenyl (surr.)	1	%	100	113	116	118
p-Terphenyl-d14 (surr.)	1	%	77	76	97	78
Heavy Metals						
Arsenic	2	mg/kg	20	7.6	11	10
Cadmium	0.4	mg/kg	0.5	0.8	1.1	36
Chromium	5	mg/kg	180	16	22	24
Copper	5	mg/kg	570	100	160	130
Lead	5	mg/kg	3500	270	430	280
Mercury	0.1	mg/kg	0.1	0.4	0.9	0.6
Nickel	5	mg/kg	31	13	19	21
Zinc	5	mg/kg	310	290	410	340
% Moisture	1	%	19	8.5	14	9.3

Client Sample ID			BH505_6.0	BH505_7.5	BH505_9.0	[G01]BH505_10.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Fe46045	S22-Fe46046	S22-Fe46047	S22-Fe46048
Date Sampled			Feb 17, 2022	Feb 17, 2022	Feb 17, 2022	Feb 17, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 40
TRH C15-C28	50	mg/kg	210	170	< 50	280
TRH C29-C36	50	mg/kg	< 50	120	< 50	< 100
TRH C10-C36 (Total)	50	mg/kg	210	290	< 50	280
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 100
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 100
TRH >C16-C34	100	mg/kg	310	280	< 100	370
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 200
TRH >C10-C40 (total)*	100	mg/kg	310	280	< 100	370
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	79	136	125	86
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	1.5	1.0	< 0.5	1.8
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	1.8	1.2	0.6	2.0
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	2.1	1.5	1.2	2.3
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	0.6	< 0.5	< 0.5	0.5
Benz(a)anthracene	0.5	mg/kg	1.3	0.9	< 0.5	1.8
Benzo(a)pyrene	0.5	mg/kg	1.1	0.7	< 0.5	1.2
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	1.2	0.7	< 0.5	1.1
Benzo(g.h.i)perylene	0.5	mg/kg	0.8	0.7	< 0.5	0.7
Benzo(k)fluoranthene	0.5	mg/kg	1.3	0.8	< 0.5	2.1
Chrysene	0.5	mg/kg	2.2	1.6	< 0.5	2.2
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	2.2	2.0	< 0.5	3.4
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.7
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	1.7	0.9	< 0.5	2.0
Pyrene	0.5	mg/kg	2.1	1.8	< 0.5	3.9
Total PAH*	0.5	mg/kg	14.5	10.1	< 0.5	19.6
2-Fluorobiphenyl (surr.)	1	%	107	103	108	123
p-Terphenyl-d14 (surr.)	1	%	76	64	105	98
Heavy Metals						
Arsenic	2	mg/kg	7.4	7.4	8.1	9.4
Cadmium	0.4	mg/kg	1.0	1.2	1.2	1.0
Chromium	5	mg/kg	27	36	31	31
Copper	5	mg/kg	190	140	130	130

Client Sample ID			BH505_6.0	BH505_7.5	BH505_9.0	[G01]BH505_10.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Fe46045	S22-Fe46046	S22-Fe46047	S22-Fe46048
Date Sampled			Feb 17, 2022	Feb 17, 2022	Feb 17, 2022	Feb 17, 2022
Test/Reference	LOR	Unit				
Heavy Metals						
Lead	5	mg/kg	2300	390	470	400
Mercury	0.1	mg/kg	0.5	0.8	0.7	0.7
Nickel	5	mg/kg	15	18	19	17
Zinc	5	mg/kg	310	460	480	430
% Moisture	1	%	9.6	13	21	22

Client Sample ID			[G01]BH505_11.5	[G01]BH506_1.0	[G01]BH506_2.5	[G01]BH506_4.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Fe46049	S22-Fe46050	S22-Fe46051	S22-Fe46052
Date Sampled			Feb 17, 2022	Feb 17, 2022	Feb 17, 2022	Feb 17, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 40	< 40	< 40	< 40
TRH C15-C28	50	mg/kg	350	180	200	240
TRH C29-C36	50	mg/kg	240	< 100	180	< 100
TRH C10-C36 (Total)	50	mg/kg	590	180	380	240
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 100	< 100	< 100	< 100
TRH >C16-C34	100	mg/kg	510	250	330	310
TRH >C34-C40	100	mg/kg	< 200	< 200	< 200	< 200
TRH >C10-C40 (total)*	100	mg/kg	510	250	330	310
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	90	57	77	86
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	3.1	1.8	1.2	1.2
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	3.3	2.0	1.4	1.5
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	3.6	2.3	1.7	1.7
Acenaphthene	0.5	mg/kg	0.7	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	1.8	0.6	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	2.5	1.3	0.9	1.1
Benzo(a)pyrene	0.5	mg/kg	2.3	1.3	0.9	0.9
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	1.3	0.9	0.6	0.6
Benzo(g.h.i)perylene	0.5	mg/kg	0.9	0.6	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	2.6	1.6	1.1	1.1
Chrysene	0.5	mg/kg	3.0	1.6	1.0	1.2
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			[G01]BH505_11.5	[G01]BH506_1.0	[G01]BH506_2.5	[G01]BH506_4.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Fe46049	S22-Fe46050	S22-Fe46051	S22-Fe46052
Date Sampled			Feb 17, 2022	Feb 17, 2022	Feb 17, 2022	Feb 17, 2022
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Fluoranthene	0.5	mg/kg	6.9	3.1	1.8	2.3
Fluorene	0.5	mg/kg	0.8	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	0.9	0.6	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	8.3	2.5	1.1	1.8
Pyrene	0.5	mg/kg	7.0	3.1	1.9	2.3
Total PAH*	0.5	mg/kg	39	17.2	9.3	11.3
2-Fluorobiphenyl (surr.)	1	%	118	123	127	91
p-Terphenyl-d14 (surr.)	1	%	95	98	105	76
Heavy Metals						
Arsenic	2	mg/kg	8.5	6.6	7.6	6.1
Cadmium	0.4	mg/kg	1.3	0.5	2.3	1.1
Chromium	5	mg/kg	22	27	81	91
Copper	5	mg/kg	140	110	4200	150
Lead	5	mg/kg	360	240	640	340
Mercury	0.1	mg/kg	0.6	0.3	0.4	0.4
Nickel	5	mg/kg	16	20	18	15
Zinc	5	mg/kg	370	290	730	430
% Moisture	1	%	19	8.6	10	17

Client Sample ID			BH506_5.0	BH506_6.5	BH506_8.0	BH506_9.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Fe46053	S22-Fe46054	S22-Fe46055	S22-Fe46056
Date Sampled			Feb 17, 2022	Feb 17, 2022	Feb 17, 2022	Feb 17, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	90	160	< 50	< 50
TRH C29-C36	50	mg/kg	59	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	149	160	< 50	< 50
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	140	220	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	140	220	< 100	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	68	91	66	67

Client Sample ID			BH506_5.0	BH506_6.5	BH506_8.0	BH506_9.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Fe46053	S22-Fe46054	S22-Fe46055	S22-Fe46056
Date Sampled			Feb 17, 2022	Feb 17, 2022	Feb 17, 2022	Feb 17, 2022
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	0.8	< 0.5	1.3
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	1.1	0.6	1.5
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.4	1.2	1.8
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	0.6	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	0.8	< 0.5	0.6
Benzo(a)pyrene	0.5	mg/kg	< 0.5	0.6	< 0.5	1.0
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	0.7	< 0.5	0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	0.7	< 0.5	0.6
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	0.7	< 0.5	1.0
Chrysene	0.5	mg/kg	0.7	1.7	< 0.5	0.9
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	0.7	1.9	< 0.5	1.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.6
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	1.3	< 0.5	0.7
Pyrene	0.5	mg/kg	0.8	2.1	< 0.5	1.5
Total PAH*	0.5	mg/kg	2.2	11.1	< 0.5	8.9
2-Fluorobiphenyl (surr.)	1	%	128	107	104	131
p-Terphenyl-d14 (surr.)	1	%	86	68	80	94
Heavy Metals						
Arsenic	2	mg/kg	5.0	5.2	10	12
Cadmium	0.4	mg/kg	0.9	0.8	13	15
Chromium	5	mg/kg	25	22	9.4	18
Copper	5	mg/kg	100	170	48	450
Lead	5	mg/kg	330	240	180	780
Mercury	0.1	mg/kg	0.2	0.2	0.1	0.2
Nickel	5	mg/kg	11	9.0	7.1	14
Zinc	5	mg/kg	430	300	4300	5200
% Moisture	1	%	12	14	24	20

Client Sample ID			[G01]BH507_0.5	BH507_1.5	BH507_3.0	BH507_4.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Fe46057	S22-Fe46058	S22-Fe46059	S22-Fe46060
Date Sampled			Feb 17, 2022	Feb 17, 2022	Feb 17, 2022	Feb 17, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 200	45	< 20	< 20
TRH C15-C28	50	mg/kg	< 500	110	110	220
TRH C29-C36	50	mg/kg	760	< 50	97	< 50
TRH C10-C36 (Total)	50	mg/kg	760	155	207	220
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20

Client Sample ID			[G01]BH507_0.5	BH507_1.5	BH507_3.0	BH507_4.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Fe46057	S22-Fe46058	S22-Fe46059	S22-Fe46060
Date Sampled			Feb 17, 2022	Feb 17, 2022	Feb 17, 2022	Feb 17, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH >C10-C16	50	mg/kg	< 500	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 500	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 1000	190	190	320
TRH >C34-C40	100	mg/kg	1100	< 100	< 100	120
TRH >C10-C40 (total)*	100	mg/kg	1100	190	190	440
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	INT	100	92	65
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 5	< 0.5	0.7	2.8
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	6.1	0.7	1.0	3.1
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	12	1.3	1.3	3.4
Acenaphthene	0.5	mg/kg	< 5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 5	< 0.5	< 0.5	2.4
Benz(a)anthracene	0.5	mg/kg	< 5	0.6	0.8	2.4
Benzo(a)pyrene	0.5	mg/kg	< 5	< 0.5	0.5	2.2
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 5	0.7	0.6	1.1
Benzo(g.h.i)perylene	0.5	mg/kg	< 5	0.6	0.6	1.5
Benzo(k)fluoranthene	0.5	mg/kg	< 5	0.7	0.8	2.2
Chrysene	0.5	mg/kg	< 5	1.3	1.2	4.1
Dibenz(a.h)anthracene	0.5	mg/kg	< 5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 5	1.0	1.4	6.3
Fluorene	0.5	mg/kg	< 5	< 0.5	< 0.5	0.6
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 5	0.6	0.8	6.7
Pyrene	0.5	mg/kg	< 5	1.2	1.4	5.2
Total PAH*	0.5	mg/kg	< 5	6.7	8.1	34.7
2-Fluorobiphenyl (surr.)	1	%	100	98	108	105
p-Terphenyl-d14 (surr.)	1	%	136	74	96	62
Heavy Metals						
Arsenic	2	mg/kg	< 2	6.3	4.1	3.4
Cadmium	0.4	mg/kg	< 0.4	1.2	0.5	0.5
Chromium	5	mg/kg	27	26	13	16
Copper	5	mg/kg	39	68	59	64
Lead	5	mg/kg	< 5	210	140	330
Mercury	0.1	mg/kg	< 0.1	0.3	0.2	0.2
Nickel	5	mg/kg	38	26	13	14
Zinc	5	mg/kg	46	310	190	200
% Moisture	1	%	3.0	8.4	7.5	9.0

Client Sample ID			BH507_6.0	BH507_7.5	[G01]BH507_9.0	[G01]BH507_10.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Fe46061	S22-Fe46062	S22-Fe46063	S22-Fe46064
Date Sampled			Feb 17, 2022	Feb 17, 2022	Feb 17, 2022	Feb 17, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	120	< 50	400	170
TRH C29-C36	50	mg/kg	130	< 50	170	80
TRH C10-C36 (Total)	50	mg/kg	250	< 50	570	250
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	240	< 100	520	230
TRH >C34-C40	100	mg/kg	110	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	350	< 100	520	230
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	89	100	98	55
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	0.8	< 0.5	< 1	< 1
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	1.1	0.6	1.0	< 1
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.4	1.2	1.9	1.3
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	0.6	< 0.5	1.3	0.7
Benzo(a)pyrene	0.5	mg/kg	0.6	< 0.5	< 1	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 1	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	0.6	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	0.8	< 0.5	< 1	< 1
Chrysene	0.5	mg/kg	1.1	< 0.5	2.1	1.2
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	1.2	< 0.5	2.1	1.2
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	0.9	< 0.5	< 2	< 1
Pyrene	0.5	mg/kg	1.2	< 0.5	2.4	1.4
Total PAH*	0.5	mg/kg	7	< 0.5	8.4	4.5
2-Fluorobiphenyl (surr.)	1	%	98	103	70	61
p-Terphenyl-d14 (surr.)	1	%	69	103	106	103
Heavy Metals						
Arsenic	2	mg/kg	4.7	4.1	3.8	3.8
Cadmium	0.4	mg/kg	0.6	< 0.4	0.4	< 0.4
Chromium	5	mg/kg	22	12	10	14
Copper	5	mg/kg	100	69	33	40

Client Sample ID			BH507_6.0	BH507_7.5	[G01]BH507_9.0	[G01]BH507_10.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Fe46061	S22-Fe46062	S22-Fe46063	S22-Fe46064
Date Sampled			Feb 17, 2022	Feb 17, 2022	Feb 17, 2022	Feb 17, 2022
Test/Reference	LOR	Unit				
Heavy Metals						
Lead	5	mg/kg	250	290	200	210
Mercury	0.1	mg/kg	0.3	0.3	0.3	0.2
Nickel	5	mg/kg	23	6.0	< 5	< 5
Zinc	5	mg/kg	300	200	200	180
% Moisture	1	%	8.8	27	20	19

Client Sample ID			[G01]BH507_12.0	BH503_0.5	[G01]BH503_2.0	[G01]BH503_3.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Fe46065	S22-Fe46066	S22-Fe46067	S22-Fe46068
Date Sampled			Feb 17, 2022	Feb 17, 2022	Feb 17, 2022	Feb 17, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	190	81	490	300
TRH C29-C36	50	mg/kg	87	110	96	250
TRH C10-C36 (Total)	50	mg/kg	277	191	586	550
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	250	160	640	480
TRH >C34-C40	100	mg/kg	< 100	110	180	160
TRH >C10-C40 (total)*	100	mg/kg	250	270	820	640
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	51	65	88	82
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 1	< 0.5	< 5	< 5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	< 1	0.6	< 5	< 5
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.9	1.2	7.3	6.9
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 1	< 0.5	< 2	< 2
Benz(a)anthracene	0.5	mg/kg	1.0	< 0.5	3.5	2.5
Benzo(a)pyrene	0.5	mg/kg	< 1	< 0.5	< 5	< 5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 1	< 0.5	< 5	< 5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	2.7	1.5
Benzo(k)fluoranthene	0.5	mg/kg	< 1	< 0.5	< 5	< 5
Chrysene	0.5	mg/kg	1.7	< 0.5	6.3	4.1
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	0.6	< 0.5

Client Sample ID			[G01]BH507_12.0	BH503_0.5	[G01]BH503_2.0	[G01]BH503_3.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Fe46065	S22-Fe46066	S22-Fe46067	S22-Fe46068
Date Sampled			Feb 17, 2022	Feb 17, 2022	Feb 17, 2022	Feb 17, 2022
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Fluoranthene	0.5	mg/kg	1.6	< 0.5	5.2	3.6
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	2.5	1.4
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 2	< 0.5	< 5	< 5
Pyrene	0.5	mg/kg	2.0	< 0.5	6.0	4.3
Total PAH*	0.5	mg/kg	6.3	< 0.5	26.8	17.4
2-Fluorobiphenyl (surr.)	1	%	60	93	94	103
p-Terphenyl-d14 (surr.)	1	%	95	98	104	101
Heavy Metals						
Arsenic	2	mg/kg	6.0	2.2	8.0	12
Cadmium	0.4	mg/kg	0.5	< 0.4	0.8	1.3
Chromium	5	mg/kg	16	12	18	26
Copper	5	mg/kg	68	27	440	440
Lead	5	mg/kg	280	25	540	1600
Mercury	0.1	mg/kg	0.4	< 0.1	1.3	0.8
Nickel	5	mg/kg	6.4	6.8	80	25
Zinc	5	mg/kg	260	49	920	1500
% Moisture	1	%	18	7.5	12	13

Client Sample ID			[G01]BH503_5.0	[G01]BH503_6.5	[G01]BH503_8.0	[G01]BH503_9.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Fe46069	S22-Fe46070	S22-Fe46071	S22-Fe46072
Date Sampled			Feb 17, 2022	Feb 17, 2022	Feb 17, 2022	Feb 17, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	30	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	580	400	73	180
TRH C29-C36	50	mg/kg	370	57	60	< 50
TRH C10-C36 (Total)	50	mg/kg	980	457	133	180
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	850	480	110	200
TRH >C34-C40	100	mg/kg	180	130	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	1030	610	110	200
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	78	63	75	82

Client Sample ID			[G01]BH503_5.0	[G01]BH503_6.5	[G01]BH503_8.0	[G01]BH503_9.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Fe46069	S22-Fe46070	S22-Fe46071	S22-Fe46072
Date Sampled			Feb 17, 2022	Feb 17, 2022	Feb 17, 2022	Feb 17, 2022
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 5	< 2	< 2	< 1
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	< 5	< 2	< 2	< 1
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	6.5	3.3	< 2	1.9
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 1	< 0.5	< 1
Benz(a)anthracene	0.5	mg/kg	1.5	2.2	< 0.5	0.9
Benzo(a)pyrene	0.5	mg/kg	< 5	< 2	< 0.5	< 1
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 2	< 2	< 0.5	< 1
Benzo(g.h.i)perylene	0.5	mg/kg	1.2	1.4	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 5	< 2	< 0.5	< 1
Chrysene	0.5	mg/kg	3.1	4.9	< 2	1.9
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	2.5	4.6	< 1	1.8
Fluorene	0.5	mg/kg	< 0.5	1.0	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	1.0	1.0	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 1	< 5	< 0.5	< 2
Pyrene	0.5	mg/kg	2.6	3.8	< 1	2.1
Total PAH*	0.5	mg/kg	11.9	18.9	< 2	6.7
2-Fluorobiphenyl (surr.)	1	%	93	80	82	64
p-Terphenyl-d14 (surr.)	1	%	94	85	101	76
Heavy Metals						
Arsenic	2	mg/kg	23	11	20	16
Cadmium	0.4	mg/kg	3.0	1.2	0.5	0.7
Chromium	5	mg/kg	62	36	27	34
Copper	5	mg/kg	2600	970	200	880
Lead	5	mg/kg	2300	630	1400	820
Mercury	0.1	mg/kg	0.5	1.1	0.3	0.5
Nickel	5	mg/kg	360	47	43	44
Zinc	5	mg/kg	2100	1100	490	560
% Moisture	1	%	16	26	18	15

Client Sample ID			[G01]BH503_11.0	[G01]BH503_12.5	[G01]BH502_1.0	[G01]BH502_2.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Fe46073	S22-Fe46074	S22-Fe46075	S22-Fe46076
Date Sampled			Feb 17, 2022	Feb 17, 2022	Feb 17, 2022	Feb 17, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	59	120	160	480
TRH C29-C36	50	mg/kg	< 50	< 50	130	58
TRH C10-C36 (Total)	50	mg/kg	59	120	290	538
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20

Client Sample ID			[G01]BH503_11.0	[G01]BH503_12.5	[G01]BH502_1.0	[G01]BH502_2.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Fe46073	S22-Fe46074	S22-Fe46075	S22-Fe46076
Date Sampled			Feb 17, 2022	Feb 17, 2022	Feb 17, 2022	Feb 17, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	140	260	490
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	140	260	490
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	78	69	96	89
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 1	< 1	< 5	< 20
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	< 1	< 1	< 5	< 20
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	< 5	< 20
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	1.3
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 1	< 5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	1.5	5.3
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 1	< 5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 2	< 5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	0.7	2.0
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 2	< 5
Chrysene	0.5	mg/kg	< 1	< 1	< 5	< 20
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 1	2.0	8.2
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.6
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	0.6	2.0
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.7
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 2	< 10
Pyrene	0.5	mg/kg	0.5	0.7	2.5	10
Total PAH*	0.5	mg/kg	< 1	< 1	7.3	30.1
2-Fluorobiphenyl (surr.)	1	%	81	86	89	87
p-Terphenyl-d14 (surr.)	1	%	81	78	104	92
Heavy Metals						
Arsenic	2	mg/kg	9.4	6.2	13	8.3
Cadmium	0.4	mg/kg	0.7	< 0.4	0.5	< 0.4
Chromium	5	mg/kg	21	17	23	20
Copper	5	mg/kg	220	26	200	94
Lead	5	mg/kg	720	58	280	170
Mercury	0.1	mg/kg	0.5	< 0.1	0.4	0.3
Nickel	5	mg/kg	28	17	27	23
Zinc	5	mg/kg	530	130	290	210
% Moisture	1	%	21	15	12	5.8

Client Sample ID			[G01]BH502_3.5	BH502_5.0	BH502_6.5	BH502_8.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Fe46077	S22-Fe46078	S22-Fe46079	S22-Fe46080
Date Sampled			Feb 17, 2022	Feb 17, 2022	Feb 17, 2022	Feb 17, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	20	< 20	< 20
TRH C15-C28	50	mg/kg	950	< 50	< 50	74
TRH C29-C36	50	mg/kg	320	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	1270	< 50	< 50	74
Naphthalene[N02]	0.5	mg/kg	1.4	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	1100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	170	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	1270	< 100	< 100	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	97	97	90	89
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 10	< 0.5	< 0.5	0.6
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	< 10	0.6	0.6	0.9
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	13	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	1.9	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 10	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	8.3	< 0.5	< 0.5	0.7
Benzo(a)pyrene	0.5	mg/kg	< 10	< 0.5	< 0.5	0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	3.0	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 10	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	19	< 0.5	< 0.5	1.1
Dibenz(a.h)anthracene	0.5	mg/kg	0.7	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 20	< 0.5	< 0.5	1.4
Fluorene	0.5	mg/kg	2.9	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	2.2	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 50	< 0.5	< 0.5	1.6
Pyrene	0.5	mg/kg	23	< 0.5	< 0.5	2.0
Total PAH*	0.5	mg/kg	61	< 0.5	< 0.5	7.3
2-Fluorobiphenyl (surr.)	1	%	88	109	93	51
p-Terphenyl-d14 (surr.)	1	%	73	109	71	74
Heavy Metals						
Arsenic	2	mg/kg	6.4	4.7	4.9	5.5
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	20	13	13	18
Copper	5	mg/kg	310	110	110	100

Client Sample ID			[G01]BH502_3.5	BH502_5.0	BH502_6.5	BH502_8.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Fe46077	S22-Fe46078	S22-Fe46079	S22-Fe46080
Date Sampled			Feb 17, 2022	Feb 17, 2022	Feb 17, 2022	Feb 17, 2022
Test/Reference	LOR	Unit				
Heavy Metals						
Lead	5	mg/kg	120	310	360	250
Mercury	0.1	mg/kg	0.2	1.9	1.9	1.3
Nickel	5	mg/kg	8.7	< 5	< 5	< 5
Zinc	5	mg/kg	440	270	260	250
% Moisture	1	%	9.6	23	24	19

Client Sample ID			[G01]BH502_9.5	BH502_11.0	BH502_12.5	BH501_1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Fe46081	S22-Fe46082	S22-Fe46083	S22-Fe46084
Date Sampled			Feb 17, 2022	Feb 17, 2022	Feb 17, 2022	Feb 17, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	170	< 50	110	280
TRH C29-C36	50	mg/kg	80	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	250	< 50	110	280
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.7
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	230	< 100	120	320
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	110
TRH >C10-C40 (total)*	100	mg/kg	230	< 100	120	430
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	85	59	82	71
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 10	< 0.5	0.9	7.6
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	< 10	0.6	1.2	7.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	< 10	1.2	1.5	7.6
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	2.1
Anthracene	0.5	mg/kg	< 2	< 0.5	< 0.5	2.6
Benz(a)anthracene	0.5	mg/kg	1.7	< 0.5	1.0	6.1
Benzo(a)pyrene	0.5	mg/kg	< 1	< 0.5	0.7	5.3
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 1	< 0.5	0.5	3.2
Benzo(g.h.i)perylene	0.5	mg/kg	0.6	< 0.5	< 0.5	2.1
Benzo(k)fluoranthene	0.5	mg/kg	< 2	< 0.5	0.6	5.2
Chrysene	0.5	mg/kg	< 10	< 0.5	1.4	6.6
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.6

Client Sample ID			[G01]BH502_9.5	BH502_11.0	BH502_12.5	BH501_1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Fe46081	S22-Fe46082	S22-Fe46083	S22-Fe46084
Date Sampled			Feb 17, 2022	Feb 17, 2022	Feb 17, 2022	Feb 17, 2022
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Fluoranthene	0.5	mg/kg	1.8	< 0.5	1.7	16
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	1.8
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	2.0
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	1.4
Phenanthrene	0.5	mg/kg	< 5	< 0.5	2.5	17
Pyrene	0.5	mg/kg	3.8	< 0.5	2.9	16
Total PAH*	0.5	mg/kg	< 10	< 0.5	11.3	88
2-Fluorobiphenyl (surr.)	1	%	94	81	106	94
p-Terphenyl-d14 (surr.)	1	%	86	80	75	70
Heavy Metals						
Arsenic	2	mg/kg	4.9	12	6.0	8.0
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	0.6
Chromium	5	mg/kg	19	25	14	19
Copper	5	mg/kg	88	23	50	110
Lead	5	mg/kg	220	25	96	320
Mercury	0.1	mg/kg	1.2	< 0.1	0.4	0.2
Nickel	5	mg/kg	< 5	27	7.6	24
Zinc	5	mg/kg	200	170	130	280
% Moisture	1	%	16	17	18	9.6

Client Sample ID			BH501_2.5	BH501_4.0	BH501_5.5	BH501_7.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Fe46085	S22-Fe46086	S22-Fe46087	S22-Fe46088
Date Sampled			Feb 17, 2022	Feb 17, 2022	Feb 17, 2022	Feb 17, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	200	21	< 20	< 20
TRH C15-C28	50	mg/kg	2800	370	220	76
TRH C29-C36	50	mg/kg	1300	270	150	< 50
TRH C10-C36 (Total)	50	mg/kg	4300	661	370	76
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	280	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	280	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	3700	630	330	< 100
TRH >C34-C40	100	mg/kg	520	160	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	4500	790	330	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	85	85	71	76

Client Sample ID			BH501_2.5	BH501_4.0	BH501_5.5	BH501_7.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Fe46085	S22-Fe46086	S22-Fe46087	S22-Fe46088
Date Sampled			Feb 17, 2022	Feb 17, 2022	Feb 17, 2022	Feb 17, 2022
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	3.3	1.7	1.7	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	3.5	2.0	1.9	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	3.8	2.2	2.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	2.5	1.3	1.4	< 0.5
Benzo(a)pyrene	0.5	mg/kg	2.4	1.3	1.3	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	1.7	0.8	0.7	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	1.2	0.6	0.7	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	2.9	1.5	0.9	< 0.5
Chrysene	0.5	mg/kg	2.8	1.4	1.3	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	4.8	2.3	2.4	0.6
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	1.0	0.6	0.7	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	2.6	1.5	1.3	< 0.5
Pyrene	0.5	mg/kg	5.2	2.4	2.6	0.6
Total PAH*	0.5	mg/kg	27.1	13.7	13.3	1.2
2-Fluorobiphenyl (surr.)	1	%	87	80	102	86
p-Terphenyl-d14 (surr.)	1	%	68	61	82	70
Heavy Metals						
Arsenic	2	mg/kg	24	11	11	12
Cadmium	0.4	mg/kg	0.6	0.6	0.6	0.7
Chromium	5	mg/kg	35	23	25	32
Copper	5	mg/kg	250	130	630	77
Lead	5	mg/kg	340	320	500	330
Mercury	0.1	mg/kg	0.8	1.3	0.9	0.7
Nickel	5	mg/kg	52	17	16	14
Zinc	5	mg/kg	450	290	370	480
% Moisture	1	%	13	13	18	22

Client Sample ID			BH501_8.5	BH501_10.0	BH501_11.5	BH500_0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Fe46089	S22-Fe46090	S22-Fe46091	S22-Fe46092
Date Sampled			Feb 17, 2022	Feb 17, 2022	Feb 17, 2022	Feb 17, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20

Client Sample ID			BH501_8.5	BH501_10.0	BH501_11.5	BH500_0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Fe46089	S22-Fe46090	S22-Fe46091	S22-Fe46092
Date Sampled			Feb 17, 2022	Feb 17, 2022	Feb 17, 2022	Feb 17, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	91	95	85	85
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	57	92	95	104
p-Terphenyl-d14 (surr.)	1	%	93	84	136	72
Heavy Metals						
Arsenic	2	mg/kg	15	14	8.7	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	33	24	13	5.5
Copper	5	mg/kg	67	45	7.0	30
Lead	5	mg/kg	210	170	21	11
Mercury	0.1	mg/kg	0.4	0.4	< 0.1	< 0.1
Nickel	5	mg/kg	25	20	9.8	< 5
Zinc	5	mg/kg	280	230	56	14
% Moisture	1	%	22	17	15	6.0

Client Sample ID			BH500_2.0	BH500_3.5	[G01]BH500_5.0	BH500_6.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Fe46093	S22-Fe46094	S22-Fe46095	S22-Fe46096
Date Sampled			Feb 17, 2022	Feb 17, 2022	Feb 17, 2022	Feb 17, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	250	700	85	< 50
TRH C29-C36	50	mg/kg	220	120	72	< 50
TRH C10-C36 (Total)	50	mg/kg	470	820	157	< 50
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	420	910	140	< 100
TRH >C34-C40	100	mg/kg	150	310	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	570	1220	140	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	101	104	131	134
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	2.7	< 2	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	2.9	< 2	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	3.2	< 2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	2.1	< 1	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	2.0	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	1.2	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	1.1	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	2.0	< 1	< 0.5
Chrysene	0.5	mg/kg	< 0.5	1.9	< 2	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	1.0	2.7	< 1	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	0.9	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	1.1	1.8	< 0.5	< 0.5
Pyrene	0.5	mg/kg	0.9	3.1	< 1	< 0.5
Total PAH*	0.5	mg/kg	3	18.8	< 2	< 0.5
2-Fluorobiphenyl (surr.)	1	%	84	84	92	89
p-Terphenyl-d14 (surr.)	1	%	65	73	76	80
Heavy Metals						
Arsenic	2	mg/kg	8.8	11	4.2	5.6
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	10	21	19	17
Copper	5	mg/kg	34	18	14	29

Client Sample ID			BH500_2.0	BH500_3.5	[G01]BH500_5.0	BH500_6.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Fe46093	S22-Fe46094	S22-Fe46095	S22-Fe46096
Date Sampled			Feb 17, 2022	Feb 17, 2022	Feb 17, 2022	Feb 17, 2022
Test/Reference	LOR	Unit				
Heavy Metals						
Lead	5	mg/kg	36	120	130	48
Mercury	0.1	mg/kg	< 0.1	3.1	1.2	0.7
Nickel	5	mg/kg	9.0	8.1	< 5	11
Zinc	5	mg/kg	58	81	67	93
% Moisture	1	%	11	10	15	17

Client Sample ID			BH500_8.0	BH500_9.5	BH500_11.0	[G01]QA20220217_PG1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Fe46097	S22-Fe46098	S22-Fe46099	S22-Fe46100
Date Sampled			Feb 17, 2022	Feb 17, 2022	Feb 17, 2022	Feb 17, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	260
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	260
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	360
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	170
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	530
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	119	118	111	135
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 2
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	< 2
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	3.1
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 1
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	1.1
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 2
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 2
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.7
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 2
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 2

Client Sample ID			BH500_8.0	BH500_9.5	BH500_11.0	[G01]QA20220217_PG1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Fe46097	S22-Fe46098	S22-Fe46099	S22-Fe46100
Date Sampled			Feb 17, 2022	Feb 17, 2022	Feb 17, 2022	Feb 17, 2022
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	2.1
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.7
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 2
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	2.2
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	6.8
2-Fluorobiphenyl (surr.)	1	%	80	78	81	79
p-Terphenyl-d14 (surr.)	1	%	92	58	63	57
Heavy Metals						
Arsenic	2	mg/kg	7.8	6.7	10	4.6
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	0.7
Chromium	5	mg/kg	13	12	12	25
Copper	5	mg/kg	36	30	26	90
Lead	5	mg/kg	27	35	28	240
Mercury	0.1	mg/kg	0.1	0.2	< 0.1	0.4
Nickel	5	mg/kg	10	13	17	33
Zinc	5	mg/kg	81	100	160	240
% Moisture	1	%	19	15	16	8.3

Client Sample ID			[G01]QA20220217_PG2	[G01]QA20220217_PG3	[G01]QA20220217_PG4	[G01]QA20220217_PG5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Fe46101	S22-Fe46102	S22-Fe46103	S22-Fe46104
Date Sampled			Feb 17, 2022	Feb 17, 2022	Feb 17, 2022	Feb 17, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	39
TRH C15-C28	50	mg/kg	130	380	270	700
TRH C29-C36	50	mg/kg	120	310	< 50	110
TRH C10-C36 (Total)	50	mg/kg	250	690	270	849
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	67
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	67
TRH >C16-C34	100	mg/kg	210	600	330	850
TRH >C34-C40	100	mg/kg	< 100	210	< 100	210
TRH >C10-C40 (total)*	100	mg/kg	210	810	330	1127
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			G01QA20220217_PG2	G01QA20220217_PG3	G01QA20220217_PG4	G01QA20220217_PG5
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**S22-Fe46101**	**S22-Fe46102**	**S22-Fe46103**	**S22-Fe46104**
Date Sampled			**Feb 17, 2022**	**Feb 17, 2022**	**Feb 17, 2022**	**Feb 17, 2022**
Test/Reference	LOR	Unit				
BTEX						
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	146	102	138	108
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 2	< 10	< 5	< 5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	< 2	< 10	< 5	< 5
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	< 2	< 10	< 5	6.7
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 2	< 1	< 5
Benz(a)anthracene	0.5	mg/kg	0.6	3.1	1.6	2.6
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 5	< 2	< 5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 5	< 2	< 2
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	2.8	1.2	1.6
Benzo(k)fluoranthene	0.5	mg/kg	< 1	< 10	< 5	< 5
Chrysene	0.5	mg/kg	< 2	< 10	< 5	< 5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	1.0	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	1.0	5.3	3.4	6.1
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	2.6	1.0	1.4
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 1	< 5	< 5	< 10
Pyrene	0.5	mg/kg	1.2	6.6	3.8	6.8
Total PAH*	0.5	mg/kg	2.8	21.4	11	18.5
2-Fluorobiphenyl (surr.)	1	%	88	81	91	83
p-Terphenyl-d14 (surr.)	1	%	59	64	56	65
Heavy Metals						
Arsenic	2	mg/kg	3.6	3.8	9.5	8.6
Cadmium	0.4	mg/kg	0.4	0.5	0.9	0.4
Chromium	5	mg/kg	16	18	26	19
Copper	5	mg/kg	66	130	150	140
Lead	5	mg/kg	220	280	410	260
Mercury	0.1	mg/kg	0.3	0.3	0.6	1.0
Nickel	5	mg/kg	21	20	20	13
Zinc	5	mg/kg	200	270	460	270
% Moisture	1	%	9.3	12	14	12

Client Sample ID			G01 QA20220217_PG6
Sample Matrix			**Soil**
Eurofins Sample No.			**S22-Fe46105**
Date Sampled			**Feb 17, 2022**
Test/Reference	LOR	Unit	
Total Recoverable Hydrocarbons			
TRH C6-C9	20	mg/kg	< 20
TRH C10-C14	20	mg/kg	< 20
TRH C15-C28	50	mg/kg	250
TRH C29-C36	50	mg/kg	150
TRH C10-C36 (Total)	50	mg/kg	400
Naphthalene N02	0.5	mg/kg	< 0.5
TRH C6-C10	20	mg/kg	< 20
TRH C6-C10 less BTEX (F1) N04	20	mg/kg	< 20
TRH >C10-C16	50	mg/kg	< 50
TRH >C10-C16 less Naphthalene (F2) N01	50	mg/kg	< 50
TRH >C16-C34	100	mg/kg	380
TRH >C34-C40	100	mg/kg	< 100
TRH >C10-C40 (total)*	100	mg/kg	380
BTEX			
Benzene	0.1	mg/kg	< 0.1
Toluene	0.1	mg/kg	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2
o-Xylene	0.1	mg/kg	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3
4-Bromofluorobenzene (surr.)	1	%	121
Polycyclic Aromatic Hydrocarbons			
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 1
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	< 1
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2
Acenaphthene	0.5	mg/kg	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5
Anthracene	0.5	mg/kg	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5
Benzo(b&j)fluoranthene N07	0.5	mg/kg	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5
Chrysene	0.5	mg/kg	< 1
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5
Fluoranthene	0.5	mg/kg	1.0
Fluorene	0.5	mg/kg	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5
Naphthalene	0.5	mg/kg	< 0.5
Phenanthrene	0.5	mg/kg	< 2
Pyrene	0.5	mg/kg	1.0
Total PAH*	0.5	mg/kg	2
2-Fluorobiphenyl (surr.)	1	%	82
p-Terphenyl-d14 (surr.)	1	%	59
Heavy Metals			
Arsenic	2	mg/kg	8.5
Cadmium	0.4	mg/kg	< 0.4
Chromium	5	mg/kg	11
Copper	5	mg/kg	43

Client Sample ID			G01QA20220217_PG6
Sample Matrix			**Soil**
Eurofins Sample No.			**S22-Fe46105**
Date Sampled			**Feb 17, 2022**
Test/Reference	LOR	Unit	
Heavy Metals			
Lead	5	mg/kg	39
Mercury	0.1	mg/kg	< 0.1
Nickel	5	mg/kg	7.2
Zinc	5	mg/kg	59
% Moisture	1	%	11

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Feb 24, 2022	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Feb 24, 2022	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Feb 24, 2022	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Feb 24, 2022	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			
Polycyclic Aromatic Hydrocarbons	Sydney	Feb 24, 2022	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Metals M8	Sydney	Feb 24, 2022	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
% Moisture	Sydney	Feb 23, 2022	14 Days
- Method: LTM-GEN-7080 Moisture			

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
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Project Name: GREEN SQUARE STAGE 3 AND 4 DSI
Project ID: 62236

Order No.:
Report #: 865678
Phone: 02 8245 0300
Fax:

Received: Feb 18, 2022 4:40 PM
Due: Mar 8, 2022
Priority: 5 Day
Contact Name: Tom Frisken

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						CANCELLED	HOLD	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	AUS Leaching Procedure	Metals M8	BTEX	Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Moisture Set	Eurofins Suite B7	BTEX	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA # 1261 Site # 1254																X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794																
Mayfield Laboratory - NATA # 1261 Site # 25079																
Perth Laboratory - NATA # 2377 Site # 2370																
External Laboratory																
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**											
1	BH504_0.5	Feb 17, 2022		Soil	S22-Fe46033								X	X		
2	BH504_2.0	Feb 17, 2022		Soil	S22-Fe46034								X	X		
3	BH504_3.5	Feb 17, 2022		Soil	S22-Fe46035								X	X		
4	BH504_4.5	Feb 17, 2022		Soil	S22-Fe46036								X	X		
5	BH504_6.0	Feb 17, 2022		Soil	S22-Fe46037								X	X		
6	BH504_7.5	Feb 17, 2022		Soil	S22-Fe46038								X	X		
7	BH504_9.0	Feb 17, 2022		Soil	S22-Fe46039								X	X		
8	BH504_10.5	Feb 17, 2022		Soil	S22-Fe46040								X	X		
9	BH504_12.0	Feb 17, 2022		Soil	S22-Fe46041								X	X		

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Project Name: GREEN SQUARE STAGE 3 AND 4 DSI
Project ID: 62236

Order No.:
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Phone: 02 8245 0300
Fax:

Received: Feb 18, 2022 4:40 PM
Due: Mar 8, 2022
Priority: 5 Day
Contact Name: Tom Frisken

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						CANCELLED	HOLD	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	AUS Leaching Procedure	Metals M8	BTEX	Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Moisture Set	Eurofins Suite B7	BTEX	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA # 1261 Site # 1254																X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794																
Mayfield Laboratory - NATA # 1261 Site # 25079																
Perth Laboratory - NATA # 2377 Site # 2370																
External Laboratory																
10	BH505_1.5	Feb 17, 2022		Soil	S22-Fe46042								X	X		
11	BH505_3.0	Feb 17, 2022		Soil	S22-Fe46043								X	X		
12	BH505_4.5	Feb 17, 2022		Soil	S22-Fe46044								X	X		
13	BH505_6.0	Feb 17, 2022		Soil	S22-Fe46045								X	X		
14	BH505_7.5	Feb 17, 2022		Soil	S22-Fe46046								X	X		
15	BH505_9.0	Feb 17, 2022		Soil	S22-Fe46047								X	X		
16	BH505_10.5	Feb 17, 2022		Soil	S22-Fe46048								X	X		
17	BH505_11.5	Feb 17, 2022		Soil	S22-Fe46049								X	X		
18	BH506_1.0	Feb 17, 2022		Soil	S22-Fe46050								X	X		
19	BH506_2.5	Feb 17, 2022		Soil	S22-Fe46051								X	X		
20	BH506_4.0	Feb 17, 2022		Soil	S22-Fe46052								X	X		

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Project Name: GREEN SQUARE STAGE 3 AND 4 DSI
Project ID: 62236

Order No.:
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Phone: 02 8245 0300
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Received: Feb 18, 2022 4:40 PM
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Priority: 5 Day
Contact Name: Tom Frisken

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						CANCELLED	HOLD	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	AUS Leaching Procedure	Metals M8	BTEX	Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Moisture Set	Eurofins Suite B7	BTEX	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA # 1261 Site # 1254																X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794																
Mayfield Laboratory - NATA # 1261 Site # 25079																
Perth Laboratory - NATA # 2377 Site # 2370																
External Laboratory																
21	BH506_5.0	Feb 17, 2022		Soil	S22-Fe46053								X	X		
22	BH506_6.5	Feb 17, 2022		Soil	S22-Fe46054								X	X		
23	BH506_8.0	Feb 17, 2022		Soil	S22-Fe46055								X	X		
24	BH506_9.0	Feb 17, 2022		Soil	S22-Fe46056								X	X		
25	BH507_0.5	Feb 17, 2022		Soil	S22-Fe46057								X	X		
26	BH507_1.5	Feb 17, 2022		Soil	S22-Fe46058								X	X		
27	BH507_3.0	Feb 17, 2022		Soil	S22-Fe46059								X	X		
28	BH507_4.5	Feb 17, 2022		Soil	S22-Fe46060								X	X		
29	BH507_6.0	Feb 17, 2022		Soil	S22-Fe46061								X	X		
30	BH507_7.5	Feb 17, 2022		Soil	S22-Fe46062								X	X		
31	BH507_9.0	Feb 17, 2022		Soil	S22-Fe46063								X	X		

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Company Name: JBS & G Australia (NSW) P/L
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Project Name: GREEN SQUARE STAGE 3 AND 4 DSI
Project ID: 62236

Order No.:
Report #: 865678
Phone: 02 8245 0300
Fax:

Received: Feb 18, 2022 4:40 PM
Due: Mar 8, 2022
Priority: 5 Day
Contact Name: Tom Frisken

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						CANCELLED	HOLD	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	AUS Leaching Procedure	Metals M8	BTEX	Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Moisture Set	Eurofins Suite B7	BTEX	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA # 1261 Site # 1254																X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794																
Mayfield Laboratory - NATA # 1261 Site # 25079																
Perth Laboratory - NATA # 2377 Site # 2370																
External Laboratory																
32	BH507_10.5	Feb 17, 2022		Soil	S22-Fe46064								X	X		
33	BH507_12.0	Feb 17, 2022		Soil	S22-Fe46065								X	X		
34	BH503_0.5	Feb 17, 2022		Soil	S22-Fe46066								X	X		
35	BH503_2.0	Feb 17, 2022		Soil	S22-Fe46067								X	X		
36	BH503_3.5	Feb 17, 2022		Soil	S22-Fe46068								X	X		
37	BH503_5.0	Feb 17, 2022		Soil	S22-Fe46069								X	X		
38	BH503_6.5	Feb 17, 2022		Soil	S22-Fe46070								X	X		
39	BH503_8.0	Feb 17, 2022		Soil	S22-Fe46071								X	X		
40	BH503_9.5	Feb 17, 2022		Soil	S22-Fe46072								X	X		
41	BH503_11.0	Feb 17, 2022		Soil	S22-Fe46073								X	X		
42	BH503_12.5	Feb 17, 2022		Soil	S22-Fe46074								X	X		

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Melbourne Laboratory - NATA # 1261 Site # 1254																X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794																
Mayfield Laboratory - NATA # 1261 Site # 25079																
Perth Laboratory - NATA # 2377 Site # 2370																
External Laboratory																
43	BH502_1.0	Feb 17, 2022		Soil	S22-Fe46075								X	X		
44	BH502_2.0	Feb 17, 2022		Soil	S22-Fe46076								X	X		
45	BH502_3.5	Feb 17, 2022		Soil	S22-Fe46077								X	X		
46	BH502_5.0	Feb 17, 2022		Soil	S22-Fe46078								X	X		
47	BH502_6.5	Feb 17, 2022		Soil	S22-Fe46079								X	X		
48	BH502_8.0	Feb 17, 2022		Soil	S22-Fe46080								X	X		
49	BH502_9.5	Feb 17, 2022		Soil	S22-Fe46081								X	X		
50	BH502_11.0	Feb 17, 2022		Soil	S22-Fe46082								X	X		
51	BH502_12.5	Feb 17, 2022		Soil	S22-Fe46083								X	X		
52	BH501_1.0	Feb 17, 2022		Soil	S22-Fe46084								X	X		
53	BH501_2.5	Feb 17, 2022		Soil	S22-Fe46085								X	X		

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Melbourne Laboratory - NATA # 1261 Site # 1254																X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794																
Mayfield Laboratory - NATA # 1261 Site # 25079																
Perth Laboratory - NATA # 2377 Site # 2370																
External Laboratory																
54	BH501_4.0	Feb 17, 2022		Soil	S22-Fe46086								X	X		
55	BH501_5.5	Feb 17, 2022		Soil	S22-Fe46087								X	X		
56	BH501_7.0	Feb 17, 2022		Soil	S22-Fe46088								X	X		
57	BH501_8.5	Feb 17, 2022		Soil	S22-Fe46089								X	X		
58	BH501_10.0	Feb 17, 2022		Soil	S22-Fe46090								X	X		
59	BH501_11.5	Feb 17, 2022		Soil	S22-Fe46091								X	X		
60	BH500_0.5	Feb 17, 2022		Soil	S22-Fe46092								X	X		
61	BH500_2.0	Feb 17, 2022		Soil	S22-Fe46093								X	X		
62	BH500_3.5	Feb 17, 2022		Soil	S22-Fe46094								X	X		
63	BH500_5.0	Feb 17, 2022		Soil	S22-Fe46095								X	X		
64	BH500_6.5	Feb 17, 2022		Soil	S22-Fe46096								X	X		

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Melbourne Laboratory - NATA # 1261 Site # 1254																X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794																
Mayfield Laboratory - NATA # 1261 Site # 25079																
Perth Laboratory - NATA # 2377 Site # 2370																
External Laboratory																
65	BH500_8.0	Feb 17, 2022		Soil	S22-Fe46097								X	X		
66	BH500_9.5	Feb 17, 2022		Soil	S22-Fe46098								X	X		
67	BH500_11.0	Feb 17, 2022		Soil	S22-Fe46099								X	X		
68	QA20220217_PG1	Feb 17, 2022		Soil	S22-Fe46100								X	X		
69	QA20220217_PG2	Feb 17, 2022		Soil	S22-Fe46101								X	X		
70	QA20220217_PG3	Feb 17, 2022		Soil	S22-Fe46102								X	X		
71	QA20220217_PG4	Feb 17, 2022		Soil	S22-Fe46103								X	X		
72	QA20220217_	Feb 17, 2022		Soil	S22-Fe46104								X	X		

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Melbourne Laboratory - NATA # 1261 Site # 1254																X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794																
Mayfield Laboratory - NATA # 1261 Site # 25079																
Perth Laboratory - NATA # 2377 Site # 2370																
External Laboratory																
	PG5															
73	QA20220217_PG6	Feb 17, 2022		Soil	S22-Fe46105								X	X		
74	BH504_0.5	Feb 17, 2022		AUS Leachate	S22-Fe46106			X	X	X		X				X
75	BH504_2.0	Feb 17, 2022		AUS Leachate	S22-Fe46107			X	X	X		X				X
76	BH504_3.5	Feb 17, 2022		AUS Leachate	S22-Fe46108			X	X	X		X				X
77	BH504_4.5	Feb 17, 2022		AUS Leachate	S22-Fe46109			X	X	X		X				X
78	BH504_6.0	Feb 17, 2022		AUS Leachate	S22-Fe46110			X	X	X		X				X
79	BH504_7.5	Feb 17, 2022		AUS Leachate	S22-Fe46111			X	X	X		X				X
80	BH504_9.0	Feb 17, 2022		AUS Leachate	S22-Fe46112			X	X	X		X				X
81	BH504_10.5	Feb 17, 2022		AUS Leachate	S22-Fe46113			X	X	X		X				X

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Melbourne Laboratory - NATA # 1261 Site # 1254																X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794																
Mayfield Laboratory - NATA # 1261 Site # 25079																
Perth Laboratory - NATA # 2377 Site # 2370																
External Laboratory																
82	BH504_12.0	Feb 17, 2022		AUS Leachate	S22-Fe46114			X	X	X		X				X
83	BH505_1.5	Feb 17, 2022		AUS Leachate	S22-Fe46115			X	X	X		X				X
84	BH505_3.0	Feb 17, 2022		AUS Leachate	S22-Fe46116			X	X	X		X				X
85	BH505_4.5	Feb 17, 2022		AUS Leachate	S22-Fe46117			X	X	X		X				X
86	BH505_6.0	Feb 17, 2022		AUS Leachate	S22-Fe46118			X	X	X		X				X
87	BH505_7.5	Feb 17, 2022		AUS Leachate	S22-Fe46119			X	X	X		X				X
88	BH505_9.0	Feb 17, 2022		AUS Leachate	S22-Fe46120			X	X	X		X				X
89	BH505_10.5	Feb 17, 2022		AUS Leachate	S22-Fe46121			X	X	X		X				X
90	BH505_11.5	Feb 17, 2022		AUS Leachate	S22-Fe46122			X	X	X		X				X
91	BH506_1.0	Feb 17, 2022		AUS Leachate	S22-Fe46123			X	X	X		X				X
92	BH506_2.5	Feb 17, 2022		AUS Leachate	S22-Fe46124			X	X	X		X				X

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Melbourne Laboratory - NATA # 1261 Site # 1254																X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794																
Mayfield Laboratory - NATA # 1261 Site # 25079																
Perth Laboratory - NATA # 2377 Site # 2370																
External Laboratory																
93	BH506_4.0	Feb 17, 2022		AUS Leachate	S22-Fe46125			X	X	X		X				X
94	BH506_5.0	Feb 17, 2022		AUS Leachate	S22-Fe46126			X	X	X		X				X
95	BH506_6.5	Feb 17, 2022		AUS Leachate	S22-Fe46127			X	X	X		X				X
96	BH506_8.0	Feb 17, 2022		AUS Leachate	S22-Fe46128			X	X	X		X				X
97	BH506_9.0	Feb 17, 2022		AUS Leachate	S22-Fe46129			X	X	X		X				X
98	BH507_0.5	Feb 17, 2022		AUS Leachate	S22-Fe46130			X	X	X		X				X
99	BH507_1.5	Feb 17, 2022		AUS Leachate	S22-Fe46131			X	X	X		X				X
100	BH507_3.0	Feb 17, 2022		AUS Leachate	S22-Fe46132			X	X	X		X				X
101	BH507_4.5	Feb 17, 2022		AUS Leachate	S22-Fe46133			X	X	X		X				X
102	BH507_6.0	Feb 17, 2022		AUS Leachate	S22-Fe46134			X	X	X		X				X
103	BH507_7.5	Feb 17, 2022		AUS Leachate	S22-Fe46135			X	X	X		X				X

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
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Project Name: GREEN SQUARE STAGE 3 AND 4 DSI
Project ID: 62236

Order No.:
Report #: 865678
Phone: 02 8245 0300
Fax:

Received: Feb 18, 2022 4:40 PM
Due: Mar 8, 2022
Priority: 5 Day
Contact Name: Tom Frisken

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						CANCELLED	HOLD	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	AUS Leaching Procedure	Metals M8	BTEX	Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Moisture Set	Eurofins Suite B7	BTEX	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA # 1261 Site # 1254																X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794																
Mayfield Laboratory - NATA # 1261 Site # 25079																
Perth Laboratory - NATA # 2377 Site # 2370																
External Laboratory																
104	BH507_9.0	Feb 17, 2022		AUS Leachate	S22-Fe46136			X	X	X		X				X
105	BH507_10.5	Feb 17, 2022		AUS Leachate	S22-Fe46137			X	X	X		X				X
106	BH507_12.0	Feb 17, 2022		AUS Leachate	S22-Fe46138			X	X	X		X				X
107	BH503_0.5	Feb 17, 2022		AUS Leachate	S22-Fe46139			X	X	X		X				X
108	BH503_2.0	Feb 17, 2022		AUS Leachate	S22-Fe46140			X	X	X		X				X
109	BH503_3.5	Feb 17, 2022		AUS Leachate	S22-Fe46141			X	X	X		X				X
110	BH503_5.0	Feb 17, 2022		AUS Leachate	S22-Fe46142			X	X	X		X				X
111	BH503_6.5	Feb 17, 2022		AUS Leachate	S22-Fe46143			X	X	X		X				X
112	BH503_8.0	Feb 17, 2022		AUS Leachate	S22-Fe46144			X	X	X		X				X
113	BH503_9.5	Feb 17, 2022		AUS Leachate	S22-Fe46145			X	X	X		X				X
114	BH503_11.0	Feb 17, 2022		AUS Leachate	S22-Fe46146			X	X	X		X				X

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Melbourne Laboratory - NATA # 1261 Site # 1254																X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794																
Mayfield Laboratory - NATA # 1261 Site # 25079																
Perth Laboratory - NATA # 2377 Site # 2370																
External Laboratory																
115	BH503_12.5	Feb 17, 2022		AUS Leachate	S22-Fe46147			X	X	X		X				X
116	BH502_1.0	Feb 17, 2022		AUS Leachate	S22-Fe46148			X	X	X		X				X
117	BH502_2.0	Feb 17, 2022		AUS Leachate	S22-Fe46149			X	X	X		X				X
118	BH502_3.5	Feb 17, 2022		AUS Leachate	S22-Fe46150			X	X	X		X				X
119	BH502_5.0	Feb 17, 2022		AUS Leachate	S22-Fe46151			X	X	X		X				X
120	BH502_6.5	Feb 17, 2022		AUS Leachate	S22-Fe46152			X	X	X		X				X
121	BH502_8.0	Feb 17, 2022		AUS Leachate	S22-Fe46153			X	X	X		X				X
122	BH502_9.5	Feb 17, 2022		AUS Leachate	S22-Fe46154			X	X	X		X				X
123	BH502_11.0	Feb 17, 2022		AUS Leachate	S22-Fe46155			X	X	X		X				X
124	BH502_12.5	Feb 17, 2022		AUS Leachate	S22-Fe46156			X	X	X		X				X
125	BH501_1.0	Feb 17, 2022		AUS Leachate	S22-Fe46157			X	X	X		X				X

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Melbourne Laboratory - NATA # 1261 Site # 1254																X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794																
Mayfield Laboratory - NATA # 1261 Site # 25079																
Perth Laboratory - NATA # 2377 Site # 2370																
External Laboratory																
126	BH501_2.5	Feb 17, 2022		AUS Leachate	S22-Fe46158			X	X	X		X				X
127	BH501_4.0	Feb 17, 2022		AUS Leachate	S22-Fe46159			X	X	X		X				X
128	BH501_5.5	Feb 17, 2022		AUS Leachate	S22-Fe46160			X	X	X		X				X
129	BH501_7.0	Feb 17, 2022		AUS Leachate	S22-Fe46161			X	X	X		X				X
130	BH501_8.5	Feb 17, 2022		AUS Leachate	S22-Fe46162			X	X	X		X				X
131	BH501_10.0	Feb 17, 2022		AUS Leachate	S22-Fe46163			X	X	X		X				X
132	BH501_11.5	Feb 17, 2022		AUS Leachate	S22-Fe46164			X	X	X		X				X
133	BH500_0.5	Feb 17, 2022		AUS Leachate	S22-Fe46165			X	X	X		X				X
134	BH500_2.0	Feb 17, 2022		AUS Leachate	S22-Fe46166			X	X	X		X				X
135	BH500_3.5	Feb 17, 2022		AUS Leachate	S22-Fe46167			X	X	X		X				X
136	BH500_5.0	Feb 17, 2022		AUS Leachate	S22-Fe46168			X	X	X		X				X

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Melbourne Laboratory - NATA # 1261 Site # 1254																X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794																
Mayfield Laboratory - NATA # 1261 Site # 25079																
Perth Laboratory - NATA # 2377 Site # 2370																
External Laboratory																
137	BH500_6.5	Feb 17, 2022		AUS Leachate	S22-Fe46169			X	X	X		X				X
138	BH500_8.0	Feb 17, 2022		AUS Leachate	S22-Fe46170			X	X	X		X				X
139	BH500_9.5	Feb 17, 2022		AUS Leachate	S22-Fe46171			X	X	X		X				X
140	BH500_11.0	Feb 17, 2022		AUS Leachate	S22-Fe46172			X	X	X		X				X
141	QA20220217_PG1	Feb 17, 2022		AUS Leachate	S22-Fe46173			X	X	X		X				X
142	QA20220217_PG2	Feb 17, 2022		AUS Leachate	S22-Fe46174			X	X	X		X				X
143	QA20220217_PG3	Feb 17, 2022		AUS Leachate	S22-Fe46175			X	X	X		X				X
144	QA20220217_PG4	Feb 17, 2022		AUS Leachate	S22-Fe46176			X	X	X		X				X

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Melbourne Laboratory - NATA # 1261 Site # 1254																X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794																
Mayfield Laboratory - NATA # 1261 Site # 25079																
Perth Laboratory - NATA # 2377 Site # 2370																
External Laboratory																
145	QA20220217_PG5	Feb 17, 2022		AUS Leachate	S22-Fe46177			X	X	X		X				X
146	QA20220217_PG6	Feb 17, 2022		AUS Leachate	S22-Fe46178			X	X	X		X				X
147	BH504_0.1	Feb 17, 2022		Soil	S22-Fe46179		X									
148	BH504_1.0	Feb 17, 2022		Soil	S22-Fe46180		X									
149	BH504_1.5	Feb 17, 2022		Soil	S22-Fe46181		X									
150	BH504_2.5	Feb 17, 2022		Soil	S22-Fe46182		X									
151	BH504_3.0	Feb 17, 2022		Soil	S22-Fe46183		X									
152	BH504_4.0	Feb 17, 2022		Soil	S22-Fe46184		X									
153	BH504_5.0	Feb 17, 2022		Soil	S22-Fe46185		X									

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Melbourne Laboratory - NATA # 1261 Site # 1254																X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794																
Mayfield Laboratory - NATA # 1261 Site # 25079																
Perth Laboratory - NATA # 2377 Site # 2370																
External Laboratory																
154	BH504_5.5	Feb 17, 2022		Soil	S22-Fe46186		X									
155	BH504_6.5	Feb 17, 2022		Soil	S22-Fe46187		X									
156	BH504_7.0	Feb 17, 2022		Soil	S22-Fe46188		X									
157	BH504_8.0	Feb 17, 2022		Soil	S22-Fe46189		X									
158	BH504_8.5	Feb 17, 2022		Soil	S22-Fe46190		X									
159	BH504_9.5	Feb 17, 2022		Soil	S22-Fe46191		X									
160	BH504_10.0	Feb 17, 2022		Soil	S22-Fe46192		X									
161	BH504_11.0	Feb 17, 2022		Soil	S22-Fe46193		X									
162	BH504_11.5	Feb 17, 2022		Soil	S22-Fe46194		X									
163	BH504_12.5	Feb 17, 2022		Soil	S22-Fe46195		X									
164	BH504_13.0	Feb 17, 2022		Soil	S22-Fe46196		X									

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Melbourne Laboratory - NATA # 1261 Site # 1254																X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794																
Mayfield Laboratory - NATA # 1261 Site # 25079																
Perth Laboratory - NATA # 2377 Site # 2370																
External Laboratory																
165	BH505_0.1	Feb 17, 2022		Soil	S22-Fe46197		X									
166	BH505_0.5	Feb 17, 2022		Soil	S22-Fe46198		X									
167	BH505_1.0	Feb 17, 2022		Soil	S22-Fe46199		X									
168	BH505_2.0	Feb 17, 2022		Soil	S22-Fe46200		X									
169	BH505_2.5	Feb 17, 2022		Soil	S22-Fe46201		X									
170	BH505_3.5	Feb 17, 2022		Soil	S22-Fe46202		X									
171	BH505_4.0	Feb 17, 2022		Soil	S22-Fe46203		X									
172	BH505_5.0	Feb 17, 2022		Soil	S22-Fe46204		X									
173	BH505_5.5	Feb 17, 2022		Soil	S22-Fe46205		X									
174	BH505_6.5	Feb 17, 2022		Soil	S22-Fe46206		X									
175	BH505_7.0	Feb 17, 2022		Soil	S22-Fe46207		X									

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Sample Detail						CANCELLED	HOLD	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	AUS Leaching Procedure	Metals M8	BTEX	Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Moisture Set	Eurofins Suite B7	BTEX	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA # 1261 Site # 1254																X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794																
Mayfield Laboratory - NATA # 1261 Site # 25079																
Perth Laboratory - NATA # 2377 Site # 2370																
External Laboratory																
176	BH505_8.0	Feb 17, 2022		Soil	S22-Fe46208		X									
177	BH505_8.5	Feb 17, 2022		Soil	S22-Fe46209		X									
178	BH505_9.5	Feb 17, 2022		Soil	S22-Fe46210		X									
179	BH505_10.0	Feb 17, 2022		Soil	S22-Fe46211		X									
180	BH505_11.0	Feb 17, 2022		Soil	S22-Fe46212		X									
181	BH505_12.0	Feb 17, 2022		Soil	S22-Fe46213		X									
182	BH505_12.5	Feb 17, 2022		Soil	S22-Fe46214		X									
183	BH505_13.0	Feb 17, 2022		Soil	S22-Fe46215		X									
184	BH506_0.1	Feb 17, 2022		Soil	S22-Fe46216		X									
185	BH506_0.5	Feb 17, 2022		Soil	S22-Fe46217		X									
186	BH506_1.5	Feb 17, 2022		Soil	S22-Fe46218		X									

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Project Name: GREEN SQUARE STAGE 3 AND 4 DSI
Project ID: 62236

Order No.:
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Phone: 02 8245 0300
Fax:

Received: Feb 18, 2022 4:40 PM
Due: Mar 8, 2022
Priority: 5 Day
Contact Name: Tom Frisken

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Melbourne Laboratory - NATA # 1261 Site # 1254																X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794																
Mayfield Laboratory - NATA # 1261 Site # 25079																
Perth Laboratory - NATA # 2377 Site # 2370																
External Laboratory																
187	BH506_2.0	Feb 17, 2022		Soil	S22-Fe46219		X									
188	BH506_3.0	Feb 17, 2022		Soil	S22-Fe46220		X									
189	BH506_3.5	Feb 17, 2022		Soil	S22-Fe46221		X									
190	BH506_4.5	Feb 17, 2022		Soil	S22-Fe46222		X									
191	BH506_5.5	Feb 17, 2022		Soil	S22-Fe46223		X									
192	BH506_6.0	Feb 17, 2022		Soil	S22-Fe46224		X									
193	BH506_7.0	Feb 17, 2022		Soil	S22-Fe46225		X									
194	BH506_7.5	Feb 17, 2022		Soil	S22-Fe46226		X									
195	BH506_8.5	Feb 17, 2022		Soil	S22-Fe46227		X									
196	BH506_9.5	Feb 17, 2022		Soil	S22-Fe46228		X									
197	BH506_10.0	Feb 17, 2022		Soil	S22-Fe46229		X									

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Melbourne Laboratory - NATA # 1261 Site # 1254																X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794																
Mayfield Laboratory - NATA # 1261 Site # 25079																
Perth Laboratory - NATA # 2377 Site # 2370																
External Laboratory																
198	BH506_10.5	Feb 17, 2022		Soil	S22-Fe46230	X										
199	BH507_0.1	Feb 17, 2022		Soil	S22-Fe46231		X									
200	BH507_1.0	Feb 17, 2022		Soil	S22-Fe46232		X									
201	BH507_2.0	Feb 17, 2022		Soil	S22-Fe46233		X									
202	BH507_2.5	Feb 17, 2022		Soil	S22-Fe46234		X									
203	BH507_3.5	Feb 17, 2022		Soil	S22-Fe46235		X									
204	BH507_4.0	Feb 17, 2022		Soil	S22-Fe46236		X									
205	BH507_5.0	Feb 17, 2022		Soil	S22-Fe46237		X									
206	BH507_5.5	Feb 17, 2022		Soil	S22-Fe46238		X									
207	BH507_6.5	Feb 17, 2022		Soil	S22-Fe46239		X									
208	BH507_7.0	Feb 17, 2022		Soil	S22-Fe46240		X									

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Melbourne Laboratory - NATA # 1261 Site # 1254																X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794																
Mayfield Laboratory - NATA # 1261 Site # 25079																
Perth Laboratory - NATA # 2377 Site # 2370																
External Laboratory																
209	BH507_8.0	Feb 17, 2022		Soil	S22-Fe46241		X									
210	BH507_8.5	Feb 17, 2022		Soil	S22-Fe46242		X									
211	BH507_9.5	Feb 17, 2022		Soil	S22-Fe46243		X									
212	BH507_10.0	Feb 17, 2022		Soil	S22-Fe46244		X									
213	BH507_11.0	Feb 17, 2022		Soil	S22-Fe46245		X									
214	BH507_11.5	Feb 17, 2022		Soil	S22-Fe46246		X									
215	BH507_12.5	Feb 17, 2022		Soil	S22-Fe46247		X									
216	BH507_13.0	Feb 17, 2022		Soil	S22-Fe46248		X									
217	BH503_0.1	Feb 17, 2022		Soil	S22-Fe46249		X									
218	BH503_1.0	Feb 17, 2022		Soil	S22-Fe46250		X									
219	BH503_1.5	Feb 17, 2022		Soil	S22-Fe46251		X									

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Melbourne Laboratory - NATA # 1261 Site # 1254																X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794																
Mayfield Laboratory - NATA # 1261 Site # 25079																
Perth Laboratory - NATA # 2377 Site # 2370																
External Laboratory																
220	BH503_2.5	Feb 17, 2022		Soil	S22-Fe46252		X									
221	BH503_3.0	Feb 17, 2022		Soil	S22-Fe46253		X									
222	BH503_4.0	Feb 17, 2022		Soil	S22-Fe46254		X									
223	BH503_4.5	Feb 17, 2022		Soil	S22-Fe46255		X									
224	BH503_5.5	Feb 17, 2022		Soil	S22-Fe46256		X									
225	BH503_6.0	Feb 17, 2022		Soil	S22-Fe46257		X									
226	BH503_7.0	Feb 17, 2022		Soil	S22-Fe46258		X									
227	BH503_7.5	Feb 17, 2022		Soil	S22-Fe46259		X									
228	BH503_8.5	Feb 17, 2022		Soil	S22-Fe46260		X									
229	BH503_9.0	Feb 17, 2022		Soil	S22-Fe46261		X									
230	BH503_10.0	Feb 17, 2022		Soil	S22-Fe46262		X									

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Melbourne Laboratory - NATA # 1261 Site # 1254																X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794																
Mayfield Laboratory - NATA # 1261 Site # 25079																
Perth Laboratory - NATA # 2377 Site # 2370																
External Laboratory																
231	BH503_10.5	Feb 17, 2022		Soil	S22-Fe46263		X									
232	BH503_11.5	Feb 17, 2022		Soil	S22-Fe46264		X									
233	BH503_12.0	Feb 17, 2022		Soil	S22-Fe46265		X									
234	BH502_0.1	Feb 17, 2022		Soil	S22-Fe46266		X									
235	BH502_0.5	Feb 17, 2022		Soil	S22-Fe46267		X									
236	BH502_1.5	Feb 17, 2022		Soil	S22-Fe46268		X									
237	BH502_2.5	Feb 17, 2022		Soil	S22-Fe46269		X									
238	BH502_3.0	Feb 17, 2022		Soil	S22-Fe46270		X									
239	BH502_4.0	Feb 17, 2022		Soil	S22-Fe46271		X									
240	BH502_4.5	Feb 17, 2022		Soil	S22-Fe46272		X									
241	BH502_5.5	Feb 17, 2022		Soil	S22-Fe46273		X									

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Melbourne Laboratory - NATA # 1261 Site # 1254																X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794																
Mayfield Laboratory - NATA # 1261 Site # 25079																
Perth Laboratory - NATA # 2377 Site # 2370																
External Laboratory																
242	BH502_6.0	Feb 17, 2022		Soil	S22-Fe46274		X									
243	BH502_7.0	Feb 17, 2022		Soil	S22-Fe46275		X									
244	BH502_7.5	Feb 17, 2022		Soil	S22-Fe46276		X									
245	BH502_8.5	Feb 17, 2022		Soil	S22-Fe46277		X									
246	BH502_9.0	Feb 17, 2022		Soil	S22-Fe46278		X									
247	BH502_10.0	Feb 17, 2022		Soil	S22-Fe46279		X									
248	BH502_10.5	Feb 17, 2022		Soil	S22-Fe46280		X									
249	BH502_11.5	Feb 17, 2022		Soil	S22-Fe46281		X									
250	BH502_12.0	Feb 17, 2022		Soil	S22-Fe46282		X									
251	BH501_0.1	Feb 17, 2022		Soil	S22-Fe46283		X									
252	BH501_0.5	Feb 17, 2022		Soil	S22-Fe46284		X									

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Melbourne Laboratory - NATA # 1261 Site # 1254																X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794																
Mayfield Laboratory - NATA # 1261 Site # 25079																
Perth Laboratory - NATA # 2377 Site # 2370																
External Laboratory																
253	BH501_1.5	Feb 17, 2022		Soil	S22-Fe46285		X									
254	TRIP SPIKE	Feb 17, 2022		Water	S22-Fe46316										X	
255	TRIP BLANK	Feb 17, 2022		Water	S22-Fe46317						X					
Test Counts						1	106	73	73	73	1	73	73	73	1	73

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
µg/L: micrograms per litre
ppm: parts per million
ppb: parts per billion
%: Percentage
org/100 mL: Organisms per 100 millilitres
NTU: Nephelometric Turbidity Units
MPN/100 mL: Most Probable Number of organisms per 100 millilitres

Terms

APHA	American Public Health Association
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 5.4
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

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QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	87			70-130	Pass	
TRH C10-C14	%	110			70-130	Pass	
Naphthalene	%	98			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
TRH C6-C10	%	84			70-130	Pass	
TRH >C10-C16	%	105			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	93			70-130	Pass	
Toluene	%	95			70-130	Pass	
Ethylbenzene	%	84			70-130	Pass	
m&p-Xylenes	%	93			70-130	Pass	
o-Xylene	%	84			70-130	Pass	
Xylenes - Total*	%	90			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	109			70-130	Pass	
Acenaphthylene	%	104			70-130	Pass	
Anthracene	%	101			70-130	Pass	
Benz(a)anthracene	%	94			70-130	Pass	
Benzo(a)pyrene	%	113			70-130	Pass	
Benzo(b&j)fluoranthene	%	100			70-130	Pass	
Benzo(g.h.i)perylene	%	94			70-130	Pass	
Benzo(k)fluoranthene	%	110			70-130	Pass	
Chrysene	%	97			70-130	Pass	
Dibenz(a.h)anthracene	%	93			70-130	Pass	
Fluoranthene	%	94			70-130	Pass	
Fluorene	%	107			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	86			70-130	Pass	
Naphthalene	%	105			70-130	Pass	
Phenanthrene	%	102			70-130	Pass	
Pyrene	%	95			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	93			80-120	Pass	
Cadmium	%	98			80-120	Pass	
Chromium	%	97			80-120	Pass	
Copper	%	96			80-120	Pass	
Lead	%	97			80-120	Pass	
Mercury	%	105			80-120	Pass	
Nickel	%	97			80-120	Pass	
Zinc	%	95			80-120	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	S22-Fe46035	CP	%	88			70-130	Pass	
Naphthalene	S22-Fe46035	CP	%	89			70-130	Pass	
TRH C6-C10	S22-Fe46035	CP	%	87			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S22-Fe46035	CP	%	90			70-130	Pass	
Toluene	S22-Fe46035	CP	%	91			70-130	Pass	
Ethylbenzene	S22-Fe46035	CP	%	90			70-130	Pass	
m&p-Xylenes	S22-Fe46035	CP	%	90			70-130	Pass	
o-Xylene	S22-Fe46035	CP	%	83			70-130	Pass	
Xylenes - Total*	S22-Fe46035	CP	%	88			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Arsenic	S22-Fe46041	CP	%	84			75-125	Pass	
Cadmium	S22-Fe46041	CP	%	95			75-125	Pass	
Mercury	S22-Fe46041	CP	%	100			75-125	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S22-Fe46048	CP	%	97			75-125	Pass	
Cadmium	S22-Fe46048	CP	%	101			75-125	Pass	
Chromium	S22-Fe46048	CP	%	91			75-125	Pass	
Mercury	S22-Fe46048	CP	%	94			75-125	Pass	
Nickel	S22-Fe46048	CP	%	95			75-125	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S22-Fe46050	CP	%	98			70-130	Pass	
Acenaphthylene	S22-Fe46050	CP	%	109			70-130	Pass	
Anthracene	S22-Fe46050	CP	%	83			70-130	Pass	
Benz(a)anthracene	S22-Fe46050	CP	%	71			70-130	Pass	
Benzo(b&j)fluoranthene	S22-Fe46050	CP	%	79			70-130	Pass	
Benzo(k)fluoranthene	S22-Fe46050	CP	%	79			70-130	Pass	
Chrysene	S22-Fe46050	CP	%	84			70-130	Pass	
Fluoranthene	S22-Fe46050	CP	%	80			70-130	Pass	
Fluorene	S22-Fe46050	CP	%	105			70-130	Pass	
Naphthalene	S22-Fe46050	CP	%	118			70-130	Pass	
Phenanthrene	S22-Fe46050	CP	%	93			70-130	Pass	
Pyrene	S22-Fe46050	CP	%	80			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S22-Fe46059	CP	%	80			75-125	Pass	
Cadmium	S22-Fe46059	CP	%	90			75-125	Pass	
Chromium	S22-Fe46059	CP	%	85			75-125	Pass	
Copper	S22-Fe46059	CP	%	78			75-125	Pass	
Mercury	S22-Fe46059	CP	%	88			75-125	Pass	
Nickel	S22-Fe46059	CP	%	88			75-125	Pass	
Zinc	S22-Fe46059	CP	%	99			75-125	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S22-Fe46069	CP	%	103			75-125	Pass	
Cadmium	S22-Fe46069	CP	%	100			75-125	Pass	
Mercury	S22-Fe46069	CP	%	119			75-125	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	S22-Fe46076	CP	%	83			70-130	Pass	
Naphthalene	S22-Fe46076	CP	%	93			70-130	Pass	
TRH C6-C10	S22-Fe46076	CP	%	85			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S22-Fe46076	CP	%	81			70-130	Pass	
Toluene	S22-Fe46076	CP	%	83			70-130	Pass	
Ethylbenzene	S22-Fe46076	CP	%	92			70-130	Pass	
m&p-Xylenes	S22-Fe46076	CP	%	93			70-130	Pass	
o-Xylene	S22-Fe46076	CP	%	94			70-130	Pass	
Xylenes - Total*	S22-Fe46076	CP	%	93			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	S22-Fe46078	CP	%	94			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Naphthalene	S22-Fe46078	CP	%	97			70-130	Pass	
TRH C6-C10	S22-Fe46078	CP	%	94			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S22-Fe46078	CP	%	93			70-130	Pass	
Toluene	S22-Fe46078	CP	%	95			70-130	Pass	
Ethylbenzene	S22-Fe46078	CP	%	88			70-130	Pass	
m&p-Xylenes	S22-Fe46078	CP	%	97			70-130	Pass	
o-Xylene	S22-Fe46078	CP	%	96			70-130	Pass	
Xylenes - Total*	S22-Fe46078	CP	%	97			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S22-Fe46082	CP	%	96			75-125	Pass	
Cadmium	S22-Fe46082	CP	%	102			75-125	Pass	
Chromium	S22-Fe46082	CP	%	109			75-125	Pass	
Copper	S22-Fe46082	CP	%	104			75-125	Pass	
Lead	S22-Fe46082	CP	%	103			75-125	Pass	
Mercury	S22-Fe46082	CP	%	105			75-125	Pass	
Nickel	S22-Fe46082	CP	%	101			75-125	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S22-Fe46089	CP	%	119			75-125	Pass	
Cadmium	S22-Fe46089	CP	%	111			75-125	Pass	
Chromium	S22-Fe46089	CP	%	100			75-125	Pass	
Copper	S22-Fe46089	CP	%	82			75-125	Pass	
Mercury	S22-Fe46089	CP	%	98			75-125	Pass	
Nickel	S22-Fe46089	CP	%	100			75-125	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C10-C14	S22-Fe46090	CP	%	104			70-130	Pass	
TRH >C10-C16	S22-Fe46090	CP	%	99			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S22-Fe46091	CP	%	102			70-130	Pass	
Acenaphthylene	S22-Fe46091	CP	%	94			70-130	Pass	
Anthracene	S22-Fe46091	CP	%	96			70-130	Pass	
Benz(a)anthracene	S22-Fe46091	CP	%	108			70-130	Pass	
Benzo(a)pyrene	S22-Fe46091	CP	%	102			70-130	Pass	
Benzo(b&j)fluoranthene	S22-Fe46091	CP	%	94			70-130	Pass	
Benzo(g.h.i)perylene	S22-Fe46091	CP	%	99			70-130	Pass	
Benzo(k)fluoranthene	S22-Fe46091	CP	%	95			70-130	Pass	
Chrysene	S22-Fe46091	CP	%	96			70-130	Pass	
Dibenz(a.h)anthracene	S22-Fe46091	CP	%	106			70-130	Pass	
Fluoranthene	S22-Fe46091	CP	%	98			70-130	Pass	
Fluorene	S22-Fe46091	CP	%	96			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S22-Fe46091	CP	%	101			70-130	Pass	
Naphthalene	S22-Fe46091	CP	%	96			70-130	Pass	
Phenanthrene	S22-Fe46091	CP	%	102			70-130	Pass	
Pyrene	S22-Fe46091	CP	%	96			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	S22-Fe46034	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Naphthalene	S22-Fe46034	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S22-Fe46034	CP	mg/kg	< 20	< 20	<1	30%	Pass	

Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S22-Fe46034	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S22-Fe46034	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S22-Fe46034	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S22-Fe46034	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S22-Fe46034	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S22-Fe46034	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S22-Fe46035	CP	%	11	11	5.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S22-Fe46037	CP	mg/kg	12	25	71	30%	Fail	Q15
Cadmium	S22-Fe46037	CP	mg/kg	1.5	1.9	24	30%	Pass	
Chromium	S22-Fe46037	CP	mg/kg	23	41	57	30%	Fail	Q15
Mercury	S22-Fe46037	CP	mg/kg	0.4	0.6	35	30%	Fail	Q15
Nickel	S22-Fe46037	CP	mg/kg	26	40	43	30%	Fail	Q15
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S22-Fe46040	CP	mg/kg	19	13	34	30%	Fail	Q15
Cadmium	S22-Fe46040	CP	mg/kg	0.6	0.6	5.0	30%	Pass	
Chromium	S22-Fe46040	CP	mg/kg	25	18	33	30%	Fail	Q15
Copper	S22-Fe46040	CP	mg/kg	250	210	19	30%	Pass	
Lead	S22-Fe46040	CP	mg/kg	560	600	6.0	30%	Pass	
Mercury	S22-Fe46040	CP	mg/kg	0.2	0.2	14	30%	Pass	
Nickel	S22-Fe46040	CP	mg/kg	26	21	20	30%	Pass	
Zinc	S22-Fe46040	CP	mg/kg	630	580	8.0	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S22-Fe46045	CP	%	9.6	13	26	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C10-C14	S22-Fe46048	CP	mg/kg	< 40	< 40	<1	30%	Pass	
TRH C15-C28	S22-Fe46048	CP	mg/kg	280	330	18	30%	Pass	
TRH C29-C36	S22-Fe46048	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C10-C16	S22-Fe46048	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C16-C34	S22-Fe46048	CP	mg/kg	370	420	14	30%	Pass	
TRH >C34-C40	S22-Fe46048	CP	mg/kg	< 200	< 200	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S22-Fe46048	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S22-Fe46048	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S22-Fe46048	CP	mg/kg	0.5	< 0.5	26	30%	Pass	
Benz(a)anthracene	S22-Fe46048	CP	mg/kg	1.8	1.6	15	30%	Pass	
Benzo(a)pyrene	S22-Fe46048	CP	mg/kg	1.2	1.5	17	30%	Pass	
Benzo(b&j)fluoranthene	S22-Fe46048	CP	mg/kg	1.1	1.0	11	30%	Pass	
Benzo(g.h.i)perylene	S22-Fe46048	CP	mg/kg	0.7	0.7	8.0	30%	Pass	
Benzo(k)fluoranthene	S22-Fe46048	CP	mg/kg	2.1	1.5	35	30%	Fail	Q15
Chrysene	S22-Fe46048	CP	mg/kg	2.2	1.8	20	30%	Pass	
Dibenz(a.h)anthracene	S22-Fe46048	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S22-Fe46048	CP	mg/kg	3.4	3.1	9.0	30%	Pass	
Fluorene	S22-Fe46048	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S22-Fe46048	CP	mg/kg	0.7	0.6	13	30%	Pass	
Naphthalene	S22-Fe46048	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S22-Fe46048	CP	mg/kg	2.0	2.0	2.0	30%	Pass	
Pyrene	S22-Fe46048	CP	mg/kg	3.9	3.3	15	30%	Pass	

Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	S22-Fe46051	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Naphthalene	S22-Fe46051	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S22-Fe46051	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S22-Fe46051	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S22-Fe46051	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S22-Fe46051	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S22-Fe46051	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S22-Fe46051	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S22-Fe46051	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S22-Fe46051	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S22-Fe46051	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S22-Fe46051	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S22-Fe46051	CP	mg/kg	0.9	0.8	11	30%	Pass	
Benzo(a)pyrene	S22-Fe46051	CP	mg/kg	0.9	0.8	10	30%	Pass	
Benzo(b&j)fluoranthene	S22-Fe46051	CP	mg/kg	0.6	0.6	6.0	30%	Pass	
Benzo(g.h.i)perylene	S22-Fe46051	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S22-Fe46051	CP	mg/kg	1.1	1.0	10	30%	Pass	
Chrysene	S22-Fe46051	CP	mg/kg	1.0	0.9	11	30%	Pass	
Dibenz(a.h)anthracene	S22-Fe46051	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S22-Fe46051	CP	mg/kg	1.8	1.5	18	30%	Pass	
Fluorene	S22-Fe46051	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S22-Fe46051	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S22-Fe46051	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S22-Fe46051	CP	mg/kg	1.1	1.0	13	30%	Pass	
Pyrene	S22-Fe46051	CP	mg/kg	1.9	1.7	11	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	S22-Fe46055	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Naphthalene	S22-Fe46055	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S22-Fe46055	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S22-Fe46055	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S22-Fe46055	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S22-Fe46055	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S22-Fe46055	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S22-Fe46055	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S22-Fe46055	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S22-Fe46056	CP	%	20	19	8.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S22-Fe46061	CP	mg/kg	4.7	13	94	30%	Fail	Q15
Cadmium	S22-Fe46061	CP	mg/kg	0.6	0.6	6.0	30%	Pass	
Chromium	S22-Fe46061	CP	mg/kg	22	23	7.0	30%	Pass	
Copper	S22-Fe46061	CP	mg/kg	100	97	6.0	30%	Pass	
Lead	S22-Fe46061	CP	mg/kg	250	250	1.0	30%	Pass	
Mercury	S22-Fe46061	CP	mg/kg	0.3	0.3	19	30%	Pass	
Nickel	S22-Fe46061	CP	mg/kg	23	25	8.0	30%	Pass	
Zinc	S22-Fe46061	CP	mg/kg	300	270	7.0	30%	Pass	

Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S22-Fe46066	CP	%	7.5	8.2	9.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S22-Fe46068	CP	mg/kg	12	7.8	38	30%	Fail	Q15
Cadmium	S22-Fe46068	CP	mg/kg	1.3	1.2	10	30%	Pass	
Chromium	S22-Fe46068	CP	mg/kg	26	22	17	30%	Pass	
Copper	S22-Fe46068	CP	mg/kg	440	310	33	30%	Fail	Q15
Mercury	S22-Fe46068	CP	mg/kg	0.8	0.9	15	30%	Pass	
Nickel	S22-Fe46068	CP	mg/kg	25	27	4.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S22-Fe46071	CP	mg/kg	20	10	64	30%	Fail	Q15
Cadmium	S22-Fe46071	CP	mg/kg	0.5	0.7	40	30%	Fail	Q15
Chromium	S22-Fe46071	CP	mg/kg	27	21	21	30%	Pass	
Mercury	S22-Fe46071	CP	mg/kg	0.3	0.2	26	30%	Pass	
Nickel	S22-Fe46071	CP	mg/kg	43	49	12	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S22-Fe46073	CP	mg/kg	9.4	10	7.0	30%	Pass	
Cadmium	S22-Fe46073	CP	mg/kg	0.7	0.6	21	30%	Pass	
Chromium	S22-Fe46073	CP	mg/kg	21	22	8.0	30%	Pass	
Copper	S22-Fe46073	CP	mg/kg	220	270	21	30%	Pass	
Lead	S22-Fe46073	CP	mg/kg	720	360	67	30%	Fail	Q15
Mercury	S22-Fe46073	CP	mg/kg	0.5	0.5	10	30%	Pass	
Nickel	S22-Fe46073	CP	mg/kg	28	32	13	30%	Pass	
Zinc	S22-Fe46073	CP	mg/kg	530	530	1.0	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	S22-Fe46075	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Naphthalene	S22-Fe46075	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S22-Fe46075	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S22-Fe46075	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S22-Fe46075	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S22-Fe46075	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S22-Fe46075	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S22-Fe46075	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S22-Fe46075	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S22-Fe46076	CP	%	5.8	4.7	22	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	S22-Fe46077	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Naphthalene	S22-Fe46077	CP	mg/kg	1.4	0.6	76	30%	Fail	Q15
TRH C6-C10	S22-Fe46077	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S22-Fe46077	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S22-Fe46077	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S22-Fe46077	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S22-Fe46077	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S22-Fe46077	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S22-Fe46077	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	

Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C10-C14	S22-Fe46080	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S22-Fe46080	CP	mg/kg	74	80	9.0	30%	Pass	
TRH C29-C36	S22-Fe46080	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C10-C16	S22-Fe46080	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S22-Fe46080	CP	mg/kg	< 100	110	7.0	30%	Pass	
TRH >C34-C40	S22-Fe46080	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S22-Fe46080	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S22-Fe46080	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S22-Fe46080	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S22-Fe46080	CP	mg/kg	0.7	0.8	19	30%	Pass	
Benzo(a)pyrene	S22-Fe46080	CP	mg/kg	0.5	0.6	20	30%	Pass	
Benzo(b&j)fluoranthene	S22-Fe46080	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S22-Fe46080	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S22-Fe46080	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S22-Fe46080	CP	mg/kg	1.1	1.2	7.0	30%	Pass	
Dibenz(a.h)anthracene	S22-Fe46080	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S22-Fe46080	CP	mg/kg	1.4	1.6	17	30%	Pass	
Fluorene	S22-Fe46080	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S22-Fe46080	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S22-Fe46080	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S22-Fe46080	CP	mg/kg	1.6	1.8	12	30%	Pass	
Pyrene	S22-Fe46080	CP	mg/kg	2.0	2.3	13	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S22-Fe46081	CP	mg/kg	4.9	5.0	2.0	30%	Pass	
Cadmium	S22-Fe46081	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S22-Fe46081	CP	mg/kg	19	18	1.0	30%	Pass	
Copper	S22-Fe46081	CP	mg/kg	88	84	4.0	30%	Pass	
Lead	S22-Fe46081	CP	mg/kg	220	210	6.0	30%	Pass	
Mercury	S22-Fe46081	CP	mg/kg	1.2	1.1	8.0	30%	Pass	
Nickel	S22-Fe46081	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Zinc	S22-Fe46081	CP	mg/kg	200	220	9.0	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	S22-Fe46085	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Naphthalene	S22-Fe46085	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S22-Fe46085	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S22-Fe46085	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S22-Fe46085	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S22-Fe46085	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S22-Fe46085	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S22-Fe46085	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S22-Fe46085	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S22-Fe46086	CP	%	13	12	3.0	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	S22-Fe46087	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Naphthalene	S22-Fe46087	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S22-Fe46087	CP	mg/kg	< 20	< 20	<1	30%	Pass	

Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S22-Fe46087	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S22-Fe46087	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S22-Fe46087	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S22-Fe46087	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S22-Fe46087	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S22-Fe46087	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S22-Fe46088	CP	mg/kg	12	14	10	30%	Pass	
Cadmium	S22-Fe46088	CP	mg/kg	0.7	0.9	28	30%	Pass	
Chromium	S22-Fe46088	CP	mg/kg	32	39	22	30%	Pass	
Copper	S22-Fe46088	CP	mg/kg	77	110	33	30%	Fail	Q15
Mercury	S22-Fe46088	CP	mg/kg	0.7	1.1	38	30%	Fail	Q15
Nickel	S22-Fe46088	CP	mg/kg	14	17	23	30%	Pass	
Zinc	S22-Fe46088	CP	mg/kg	480	590	20	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S22-Fe46091	CP	mg/kg	8.7	9.1	4.0	30%	Pass	
Cadmium	S22-Fe46091	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S22-Fe46091	CP	mg/kg	13	13	<1	30%	Pass	
Copper	S22-Fe46091	CP	mg/kg	7.0	8.9	25	30%	Pass	
Lead	S22-Fe46091	CP	mg/kg	21	28	25	30%	Pass	
Mercury	S22-Fe46091	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S22-Fe46091	CP	mg/kg	9.8	10	5.0	30%	Pass	
Zinc	S22-Fe46091	CP	mg/kg	56	65	15	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S22-Fe46096	CP	%	17	17	2.0	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	S22-Fe46105	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Naphthalene	S22-Fe46105	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S22-Fe46105	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S22-Fe46105	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S22-Fe46105	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S22-Fe46105	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S22-Fe46105	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S22-Fe46105	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S22-Fe46105	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	

Comments

Eurofins | Environment Testing accreditation number 1261, site 18217 is currently in progress of a controlled transition to a new custom built location at 179 Magowar Road, Girraween, NSW 2145. All results on this report denoted as being performed by Eurofins | Environment Testing Unit F3, Building F, 16 Mars road, Lane Cove West, NSW 2066, corporate site 18217, will have been performed on either Lane Cove or new Girraween site

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
G01	The LORs have been raised due to matrix interference
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised by:

Ursula Long	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)
Gabriele Cordero	Senior Analyst-Metal (NSW)
Roopesh Rangarajan	Senior Analyst-Volatile (NSW)

Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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Chain of Custody

JBS&G

PROJECT NO.: **62236**

PROJECT NAME: **Green Square Stages 3 & 4 DGI**

DATE NEEDED BY: **Std**

LABORATORY BATCH NO.:

SAMPLERS: **TF, PG, ST**

QC LEVEL: NEPM (2013)

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....**tfrisken**@jbsg.com.au; (3) .....**pgordon**@jbsg.com.au; (4).....**stran**@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

ASLP Analysis to use supplied groundwater (MW 524 or MW530)

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Suite B7	ASLP (TRH *)	ASLP (PAH – low)	ASLP (Metals)	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES: * Semi to non-volatile TRH
BH5 07 – 0.1	Soil	18/2/22		Jars		X	X	X	X			
BH5 07 – 0.5	Soil	18/2/22		Jars								
BH5 07 – 1.0	Soil	18/2/22		Jars								
BH5 08 – 1.5	Soil	18/2/22		Jars		X	X	X	X			
BH5 08 – 2.0	Soil	18/2/22		Jars								
BH5 07 – 2.5	Soil	18/2/22		Jars								
BH5 07 – 3.0	Soil	18/2/22		Jars		X	X	X	X			
BH5 08 – 3.5	Soil	18/2/22		Jars								
BH5 07 – 4.0	Soil	18/2/22		Jars		X	X	X	X			
BH5 08 – 4.5	Soil	18/2/22		Jars								
BH5 07 – 5.0	Soil	18/2/22		Jars								
BH5 08 – 5.5	Soil	18/2/22		Jars		X	X	X	X			
BH5 07 – 6.0	Soil	18/2/22		Jars								
BH5 08 – 6.5	Soil	18/2/22		Jars		X	X	X	X			
BH5 07 – 7.0	Soil	18/2/22		Jars								
BH5 07 – 7.5	Soil	18/2/22		Jars								
BH5 09 – 0.1	Soil	18/2/22		Jars		X	X	X	X			
BH5 09 – 0.5	Soil	18/2/22		Jars								
BH5 09 – 1.0	Soil	18/2/22		Jars								

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 18/2/22 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C
NAME: DATE: OF:	CONSIGNMENT NOTE NO. TRANSPORT CO	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

G.L. 21/2/22 4:30pm #866070

16.3°C

Std.

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Chain of Custody

JBS&G

PROJECT NO.: **62236**

PROJECT NAME: **Green Square Stages 3 & 4 DGI**

DATE NEEDED BY: **Std**

LABORATORY BATCH NO.:

SAMPLERS: **TF, PG, ST**

QC LEVEL: NEPM (2013)

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....**tfrisken**@jbsg.com.au; (3) .....**pgordon**@jbsg.com.au; (4).....**stran**@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

ASLP Analysis to use supplied groundwater

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Suite B7	ASLP (TRH *)	ASLP (PAH – low)	ASLP (Metals)	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES: * Semi to non-volatile TRH
BH509 – 1.5	Soil	18/2/22		Jars			X	X	X			
BH509 – 2.0	Soil	18/2/22		Jars			X	X	X			
BH509 – 2.5	Soil	18/2/22		Jars								
BH509 – 3.0	Soil	18/2/22		Jars		X	X	X	X			
BH509 – 3.5	Soil	18/2/22		Jars								
BH509 – 4.0	Soil	18/2/22		Jars								
BH509 – 4.5	Soil	18/2/22		Jars			X	X	X			
BH509 – 5.0	Soil	18/2/22		Jars								
BH509 – 5.5	Soil	18/2/22		Jars								
BH509 – 6.0	Soil	18/2/22		Jars			X	X	X			
BH509 – 6.5	Soil	18/2/22		Jars								
BH509 – 7.0	Soil	18/2/22		Jars			X	X	X			
BH509 – 7.5	Soil	18/2/22		Jars								
BH509 – 8.0	Soil	18/2/22		Jars								
BH510 – 0.1	Soil	18/2/22		Jars								
BH510 – 0.5	Soil	18/2/22		Jars			X	X	X			
BH510 – 1.0	Soil	18/2/22		Jars								
BH510 – 1.5	Soil	18/2/22		Jars								
BH510 – 2.0	Soil	18/2/22		Jars								

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Tom Frisken DATE: 18/2/22	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE:	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

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Chain of Custody

JBS&G

PROJECT NO.: **62236**

PROJECT NAME: **Green Square Stages 3 & 4 DGI**

DATE NEEDED BY: **Std**

LABORATORY BATCH NO.:

SAMPLERS: **TF, PG, ST**

QC LEVEL: NEPM (2013)

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....**tfrisken**@jbsg.com.au; (3) .....**pgordon**@jbsg.com.au; (4).....**stran**@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

ASLP Analysis to use supplied groundwater

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Suite B7	ASLP (TRH *)	ASLP (PAH – low)	ASLP (Metals)	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES: * Semi to non-volatile TRH
BH5 10 – 2.5	Soil	18/2/22		Jars		x	x	x	x			
BH5 10 – 3.0	Soil	18/2/22		Jars								
BH5 10 – 3.5	Soil	18/2/22		Jars		x	x	x	x			
BH5 10 – 4.0	Soil	18/2/22		Jars								
BH5 10 – 4.5	Soil	18/2/22		Jars								
BH5 10 – 5.0	Soil	18/2/22		Jars		x	x	x	x			
BH5 10 – 5.5	Soil	18/2/22		Jars								
BH5 10 – 6.0	Soil	18/2/22		Jars								
BH5 10 – 6.5	Soil	18/2/22		Jars		x	x	x	x			
BH5 10 – 7.0	Soil	18/2/22		Jars								
BH5 10 – 7.5	Soil	18/2/22		Jars		x	x	x	x			
BH5 10 – 8.0	Soil	18/2/22		Jars								
BH5 10 – 8.5	Soil	18/2/22		Jars								
BH5 11 – 0.1	Soil	18/2/22		Jars		x	x	x	x			
BH5 11 – 0.5	Soil	18/2/22		Jars								
BH5 11 – 1.0	Soil	18/2/22		Jars								
BH5 11 – 1.5	Soil	18/2/22		Jars		x	x	x	x			
BH5 11 – 2.0	Soil	18/2/22		Jars								
BH5 11 – 2.5	Soil	18/2/22		Jars								

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: TDMFrisken DATE: 18/2/22	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE:	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

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Chain of Custody

JBS&G

PROJECT NO.: **62236**

PROJECT NAME: **Green Square Stages 3 & 4 DGI**

DATE NEEDED BY: **Std**

LABORATORY BATCH NO.:

SAMPLERS: **TF, PG, ST**

QC LEVEL: NEPM (2013)

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....**tfrisken**@jbsg.com.au; (3) .....**pgordon**@jbsg.com.au; (4).....**stran**@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

ASLP Analysis to use supplied groundwater

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Suite B7	ASLP (TRH *)	ASLP (PAH – low)	ASLP (Metals)	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES: * Semi to non-volatile TRH
BH5 11-3.0	Soil	18/2/22		Jars		X	X	X	X			
BH5 11-3.5	Soil	18/2/22		Jars								
BH5 11-4.0	Soil	18/2/22		Jars								
BH5 11-4.5	Soil	18/2/22		Jars		X	X	X	X			
BH5 11-5.0	Soil	18/2/22		Jars								
BH5 11-5.5	Soil	18/2/22		Jars								
BH5 11-6.0	Soil	18/2/22		Jars		X	X	X	X			
BH5 11-6.5	Soil	18/2/22		Jars								
BH5 11-7.0	Soil	18/2/22		Jars								
BH5 11-7.5	Soil	18/2/22		Jars		X	X	X	X			
BH5 11-8.0	Soil	18/2/22		Jars								
BH5 11-8.5	Soil	18/2/22		Jars								
BH5 11-9.0	Soil	18/2/22		Jars								
BH5 12-0.1	Soil	18/2/22		Jars		X	X	X	X			
BH5 12-0.5	Soil	18/2/22		Jars								
BH5 12-1.0	Soil	18/2/22		Jars								
BH5 12-1.5	Soil	18/2/22		Jars		X	X	X	X			
BH5 12-2.0	Soil	18/2/22		Jars		X	X	X	X			
BH5 12-2.5	Soil	18/2/22		Jars								

RELINQUISHED BY:

NAME: Tom Frisken DATE: 18/2/22

OF: JBS&G

NAME: DATE:

OF:

METHOD OF SHIPMENT:

CONSIGNMENT NOTE NO.

TRANSPORT CO.

CONSIGNMENT NOTE NO.

TRANSPORT CO

RECEIVED BY:

NAME:
DATE:
OF:

NAME: DATE:
OF:

FOR RECEIVING LAB USE ONLY:

COOLER SEAL – Yes..... No ..... Intact ..... Broken .....

COOLER TEMP ..... deg C

COOLER SEAL – Yes..... No ..... Intact ..... Broken .....

COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; **VS = Sulfuric Acid** Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

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Chain of Custody

JBS&G

PROJECT NO.: **62236**	LABORATORY BATCH NO.:
PROJECT NAME: **Green Square Stages 3 & 4 DGI**	SAMPLERS: **TF, PG, ST**
DATE NEEDED BY: **Std**	QC LEVEL: NEPM (2013)

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....**tfrisken**@jbsg.com.au; (3) .....**pgordon**@jbsg.com.au; (4).....**stran**@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

ASLP Analysis to use supplied groundwater

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Suite B7	ASLP (TRH *)	ASLP (PAH – low)	ASLP (Metals)	HOLD	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES: * Semi to non-volatile TRH
BH5 2-3.0	Soil	18/2/22		Jars									
BH5 2-3.5	Soil	18/2/22		Jars		X	X	X	X				
BH5 2-4.0	Soil	18/2/22		Jars									
BH5 2-4.5	Soil	18/2/22		Jars		X	X	X	X				
BH5 2-5.0	Soil	18/2/22		Jars									
BH5 2-5.5	Soil	18/2/22		Jars		X	X	X	X				
BH5 2-6.0	Soil	18/2/22		Jars									
~~BH5~~ QA20220218-PG1	Soil	18/2/22		Jars		X	X	X	X				
~~BH5~~ QA20220218-PG2	Soil	18/2/22		Jars						X			
~~BH5~~ QA20220218-PG3	Soil	18/2/22		Jars		X	X	X	X				
~~BH5~~ QA20220218-PG4	Soil	18/2/22		Jars						X			
~~BH5~~	~~Soil~~	~~18/2/22~~		Jars									
~~BH5~~ TS/TB	Water ~~Soil~~	18/2/22		~~Jars~~ Vials									

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: TomFrisken DATE: 18/2/22 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C
NAME: DATE: OF:	CONSIGNMENT NOTE NO. TRANSPORT CO	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

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Chain of Custody

JBS&G

PROJECT NO.: **62236**	LABORATORY BATCH NO.:
PROJECT NAME: **Green Square Stages 3 & 4 DGI**	SAMPLERS: **TF, PG, ST**
DATE NEEDED BY: **Std**	QC LEVEL: NEPM (2013)

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....**tfrisken**@jbsg.com.au; (3) .....**pgordon**@jbsg.com.au; (4).....**stran**@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

ASLP Analysis to use supplied groundwater

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Suite B7	ASLP (TRH *)	ASLP (PAH – low)	ASLP (Metals)	Hold	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES: * Semi to non-volatile TRH
BH530 – 0.1	Soil	18/2/22		Jars						X			
BH530 – 0.5	Soil	18/2/22		Jars						X			
BH530 – 1.0	Soil	18/2/22		Jars						X			
BH530 – 1.5	Soil	18/2/22		Jars						X			
BH530 – 2.0	Soil	18/2/22		Jars						X			
BH530 – 2.5	Soil	18/2/22		Jars						X			
BH530 – 3.0	Soil	18/2/22		Jars						X			
BH530 – 3.5	Soil	18/2/22		Jars						X			
BH530 – 4.0	Soil	18/2/22		Jars						X			
BH530 – 4.5	Soil	18/2/22		Jars						X			
BH530 – 5.0	Soil	18/2/22		Jars						X			
BH530 – 5.5	Soil	18/2/22		Jars						X			
BH530 – 6.0	Soil	18/2/22		Jars						X			
BH530 – 6.5	Soil	18/2/22		Jars						X			
BH530 – 7.0	Soil	18/2/22		Jars						X			
BH530 – 7.5	Soil	18/2/22		Jars						X			
BH530 – 8.0	Soil	18/2/22		Jars						X			
BH530 – 8.5	Soil	18/2/22		Jars						X			
BH530 – 9.0	Soil	18/2/22		Jars						X			

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Tom Frisken DATE: 18/2/22	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE:	
		OF:	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

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Chain of Custody

JBS&G

PROJECT NO.: **62236**	LABORATORY BATCH NO.:
PROJECT NAME: **Green Square Stages 3 & 4 DGI**	SAMPLERS: **TF, PG, ST**
DATE NEEDED BY: **Std**	QC LEVEL: NEPM (2013)

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....**tfrisken**@jbsg.com.au; (3) .....**pgordon**@jbsg.com.au; (4).....**stran**@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

ASLP Analysis to use supplied groundwater

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Suite B7	ASLP (TRH *)	ASLP (PAH – low)	ASLP (Metals)	Hold	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES: * Semi to non-volatile TRH
BH530_9.0	Soil	18/2/22		Jars						X			
BH530_9.5	Soil	18/2/22		Jars						X			
BH530_10	Soil	18/2/22		Jars						X			
BH530_10.5	Soil	18/2/22		Jars						X			
BH530_11.0	Soil	18/2/22		Jars						X			

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Tom Frisken DATE: 18/2/22 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C
NAME: DATE: OF:	CONSIGNMENT NOTE NO. TRANSPORT CO	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

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Chain of Custody

JBS&G

PROJECT NO.: **62236**	LABORATORY BATCH NO.:
PROJECT NAME: **Green Square Stages 3 & 4 DGI**	SAMPLERS: **TF, PG, ST**
DATE NEEDED BY: **Std**	QC LEVEL: NEPM (2013)

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....**tfrisken**@jbsg.com.au; (3) .....**pgordon**@jbsg.com.au; (4).....**stran**@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

ENVIROLAB

ASLP Analysis to use supplied groundwater (MW524 or MW530)

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Suite B3	ASLP (TRH *)	ASLP (PAH – low)	ASLP (Metals)	HOLD	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES: * Semi to non-volatile TRH
5 QC20220218-PG1	Soil	18/2/22		Jars		X	X	X	X				
5 QC20220218-PG2	Soil	18/2/22		Jars						X			
5 QC20220218-PG3	Soil	18/2/22		Jars		X	X	X	X				
5 QC20220218-PG4	Soil	18/2/22		Jars						X			
5													
5													
5													
5													
5													
5													
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5													
5													
5													
5													
5													
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5													

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Tom Frisken DATE: 18/2/22	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: OF:	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO		COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; **VS** = Sulfuric Acid **P**rsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

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RE: Eurofins Sample Receipt Advice - Report 866070 : Site GREEN SQUARE STAGES 3 AND 4 DSI (62236)

Tom Frisken <tfrisken@jbsg.com.au>

Thu 2/24/2022 6:31 PM

To: #AU04_Enviro_Sample_NSW <EnviroSampleNSW@eurofins.com>

Cc: Prue Gordon <pgordon@jbsg.com.au>; Serena Tran <stran@jbsg.com.au>

CAUTION: EXTERNAL EMAIL - Sent from an email domain that is not formally trusted by Eurofins.

Do not click on links or open attachments unless you recognise the sender and are certain that the content is safe.

Hi George,

Please place TS/TB samples on BTEX analysis

Cheers,
Tom

Thomas Frisken| Project Manager | JBS&G
Sydney | Melbourne | Adelaide | Perth | Brisbane | Canberra | Newcastle | Darwin | Wollongong | Bunbury | Hobart
Level 1, 50 Margaret Street, Sydney NSW 2000
T: 02 8245 0300 | M: 0488 032 378 | tfrisken@jbsg.com.au | | W: www.jbsg.com.au

Contaminated Land | Groundwater Remediation | Approvals and Assessments | Auditing and Compliance | Hygiene and Hazardous Materials | Due Diligence and Liability | Fire Management Planning | Stakeholder and Risk Management

JBS&G acknowledges the Traditional Owners and custodians on the land we walk, work and live. We pay respect to their cultures, Elders past and present, and in the spirit of reconciliation, we commit to working together for our shared future.

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From: EnviroSampleNSW@eurofins.com <EnviroSampleNSW@eurofins.com>
Sent: Thursday, 24 February 2022 1:59 PM
To: Tom Frisken <tfrisken@jbsg.com.au>
Cc: Prue Gordon <pgordon@jbsg.com.au>; Serena Tran <stran@jbsg.com.au>
Subject: Eurofins Sample Receipt Advice - Report 866070 : Site GREEN SQUARE STAGES 3 AND 4 DSI (62236)

[EXTERNAL EMAIL]** Stop and think before opening attachments, clicking or responding.

Dear Valued Client,

TRIP BLANK and TRIP SPIKE on hold as per COC, please confirm.

Please find attached a Sample Receipt Advice (SRA), a Summary Sheet and a scanned copy of your Chain-of-Custody (COC). It is important that you check this documentation to ensure that the details are correct such as the Client Job Number, Turn Around Time, any comments in the Notes section and sample numbers as well as the requested analysis. If there are any irregularities then please contact your Eurofins Analytical Services Manager as soon as possible to make certain that they get changed.

Kind Regards
George Lewis

EnviroNote 1117 - Urban Runoff Mortality Syndrome 6-PPD quinone & HMMM
EnviroNote 1115 - Eurofins SYDNEY Laboratory is now NATA accredited for PFAS

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How did we do? Provide your feedback here

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Eurofins Environment Testing Australia Pty Ltd
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6 Monterey Road
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Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

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Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Tom Frisken
Project name:	GREEN SQUARE STAGES 3 AND 4 DSI
Project ID:	62236
Turnaround time:	5 Day
Date/Time received	Feb 21, 2022 4:30 PM
Eurofins reference	866070

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	Sample Temperature of chilled sample on the batch as recorded by Eurofins Sample Receipt : 16.3 degrees Celsius.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
X	Split sample sent to requested external lab.
X	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Ursula Long on phone : or by email: UrsulaLong@eurofins.com

Results will be delivered electronically via email to Tom Frisken - tfrisken@jbsg.com.au.

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NATA # 1261 Site # 18217

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: GREEN SQUARE STAGES 3 AND 4 DSI
Project ID: 62236

Order No.:
Report #: 866070
Phone: 02 8245 0300
Fax:

Received: Feb 21, 2022 4:30 PM
Due: Mar 8, 2022
Priority: 5 Day
Contact Name: Tom Frisken

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						HOLD	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	AUS Leaching Procedure	Metals M8	BTEX	Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Moisture Set	Eurofins Suite B7	BTEX	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA # 1261 Site # 1254															X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794															
Mayfield Laboratory - NATA # 1261 Site # 25079															
Perth Laboratory - NATA # 2377 Site # 2370															
External Laboratory															
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**										
1	BH508_0.5	Feb 18, 2022		Soil	S22-Fe49394							X	X		
2	BH508_2.0	Feb 18, 2022		Soil	S22-Fe49395							X	X		
3	BH508_3.5	Feb 18, 2022		Soil	S22-Fe49396							X	X		
4	BH508_4.5	Feb 18, 2022		Soil	S22-Fe49397							X	X		
5	BH508_6.0	Feb 18, 2022		Soil	S22-Fe49398							X	X		
6	BH508_7.0	Feb 18, 2022		Soil	S22-Fe49399							X	X		
7	BH509_0.5	Feb 18, 2022		Soil	S22-Fe49400							X	X		
8	BH509_2.0	Feb 18, 2022		Soil	S22-Fe49401							X	X		
9	BH509_2.5	Feb 18, 2022		Soil	S22-Fe49402							X	X		

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Fax:

Received: Feb 21, 2022 4:30 PM
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Priority: 5 Day
Contact Name: Tom Frisken

Eurofins Analytical Services Manager : Ursula Long

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Melbourne Laboratory - NATA # 1261 Site # 1254															X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794															
Mayfield Laboratory - NATA # 1261 Site # 25079															
Perth Laboratory - NATA # 2377 Site # 2370															
External Laboratory															
10	BH509_3.5	Feb 18, 2022		Soil	S22-Fe49403							X	X		
11	BH509_5.0	Feb 18, 2022		Soil	S22-Fe49404							X	X		
12	BH509_6.5	Feb 18, 2022		Soil	S22-Fe49405							X	X		
13	BH509_7.5	Feb 18, 2022		Soil	S22-Fe49406							X	X		
14	BH510_1.0	Feb 18, 2022		Soil	S22-Fe49407							X	X		
15	BH510_2.5	Feb 18, 2022		Soil	S22-Fe49408							X	X		
16	BH510_4.0	Feb 18, 2022		Soil	S22-Fe49409							X	X		
17	BH510_5.5	Feb 18, 2022		Soil	S22-Fe49410							X	X		
18	BH510_7.0	Feb 18, 2022		Soil	S22-Fe49411							X	X		
19	BH510_8.0	Feb 18, 2022		Soil	S22-Fe49412							X	X		
20	BH511_0.5	Feb 18, 2022		Soil	S22-Fe49413							X	X		

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Melbourne Laboratory - NATA # 1261 Site # 1254															X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794															
Mayfield Laboratory - NATA # 1261 Site # 25079															
Perth Laboratory - NATA # 2377 Site # 2370															
External Laboratory															
21	BH511_2.0	Feb 18, 2022		Soil	S22-Fe49414							X	X		
22	BH511_3.5	Feb 18, 2022		Soil	S22-Fe49415							X	X		
23	BH511_5.0	Feb 18, 2022		Soil	S22-Fe49416							X	X		
24	BH511_6.5	Feb 18, 2022		Soil	S22-Fe49417							X	X		
25	BH511_8.0	Feb 18, 2022		Soil	S22-Fe49418							X	X		
26	BH512_0.5	Feb 18, 2022		Soil	S22-Fe49419							X	X		
27	BH512_2.0	Feb 18, 2022		Soil	S22-Fe49420							X	X		
28	BH512_2.5	Feb 18, 2022		Soil	S22-Fe49421							X	X		
29	BH512_3.5	Feb 18, 2022		Soil	S22-Fe49422							X	X		
30	BH512_4.5	Feb 18, 2022		Soil	S22-Fe49423							X	X		
31	BH512_5.5	Feb 18, 2022		Soil	S22-Fe49424							X	X		

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Melbourne Laboratory - NATA # 1261 Site # 1254															X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794															
Mayfield Laboratory - NATA # 1261 Site # 25079															
Perth Laboratory - NATA # 2377 Site # 2370															
External Laboratory															
32	QA20220218PG1	Feb 18, 2022		Soil	S22-Fe49425							X	X		
33	QA20220218PG3	Feb 18, 2022		Soil	S22-Fe49426							X	X		
34	BH508_0.5	Feb 18, 2022		AUS Leachate	S22-Fe49427		X	X	X		X				X
35	BH508_2.0	Feb 18, 2022		AUS Leachate	S22-Fe49428		X	X	X		X				X
36	BH508_3.5	Feb 18, 2022		AUS Leachate	S22-Fe49429		X	X	X		X				X
37	BH508_4.5	Feb 18, 2022		AUS Leachate	S22-Fe49430		X	X	X		X				X
38	BH508_6.0	Feb 18, 2022		AUS Leachate	S22-Fe49431		X	X	X		X				X
39	BH508_7.0	Feb 18, 2022		AUS Leachate	S22-Fe49432		X	X	X		X				X
40	BH509_0.5	Feb 18, 2022		AUS Leachate	S22-Fe49433		X	X	X		X				X

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Melbourne Laboratory - NATA # 1261 Site # 1254															X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794															
Mayfield Laboratory - NATA # 1261 Site # 25079															
Perth Laboratory - NATA # 2377 Site # 2370															
External Laboratory															
41	BH509_2.0	Feb 18, 2022		AUS Leachate	S22-Fe49434		X	X	X		X				X
42	BH5_09_2.5	Feb 18, 2022		AUS Leachate	S22-Fe49435		X	X	X		X				X
43	BH509_3.5	Feb 18, 2022		AUS Leachate	S22-Fe49436		X	X	X		X				X
44	BH509_5.0	Feb 18, 2022		AUS Leachate	S22-Fe49437		X	X	X		X				X
45	BH509_6.5	Feb 18, 2022		AUS Leachate	S22-Fe49438		X	X	X		X				X
46	BH509_7.5	Feb 18, 2022		AUS Leachate	S22-Fe49439		X	X	X		X				X
47	BH510_1.0	Feb 18, 2022		AUS Leachate	S22-Fe49440		X	X	X		X				X
48	BH510_2.5	Feb 18, 2022		AUS Leachate	S22-Fe49441		X	X	X		X				X
49	BH510_4.0	Feb 18, 2022		AUS Leachate	S22-Fe49442		X	X	X		X				X
50	BH510_5.5	Feb 18, 2022		AUS Leachate	S22-Fe49443		X	X	X		X				X
51	BH510_7.0	Feb 18, 2022		AUS Leachate	S22-Fe49444		X	X	X		X				X

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Melbourne Laboratory - NATA # 1261 Site # 1254															X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794															
Mayfield Laboratory - NATA # 1261 Site # 25079															
Perth Laboratory - NATA # 2377 Site # 2370															
External Laboratory															
52	BH510_8.0	Feb 18, 2022		AUS Leachate	S22-Fe49445		X	X	X		X				X
53	BH511_0.5	Feb 18, 2022		AUS Leachate	S22-Fe49446		X	X	X		X				X
54	BH511_2.0	Feb 18, 2022		AUS Leachate	S22-Fe49447		X	X	X		X				X
55	BH511_3.5	Feb 18, 2022		AUS Leachate	S22-Fe49448		X	X	X		X				X
56	BH511_5.0	Feb 18, 2022		AUS Leachate	S22-Fe49449		X	X	X		X				X
57	BH511_6.5	Feb 18, 2022		AUS Leachate	S22-Fe49450		X	X	X		X				X
58	BH511_8.0	Feb 18, 2022		AUS Leachate	S22-Fe49451		X	X	X		X				X
59	BH512_0.5	Feb 18, 2022		AUS Leachate	S22-Fe49452		X	X	X		X				X
60	BH512_2.0	Feb 18, 2022		AUS Leachate	S22-Fe49453		X	X	X		X				X
61	BH512_2.5	Feb 18, 2022		AUS Leachate	S22-Fe49454		X	X	X		X				X
62	BH512_3.5	Feb 18, 2022		AUS Leachate	S22-Fe49455		X	X	X		X				X

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Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794															
Mayfield Laboratory - NATA # 1261 Site # 25079															
Perth Laboratory - NATA # 2377 Site # 2370															
External Laboratory															
63	BH512_4.5	Feb 18, 2022		AUS Leachate	S22-Fe49456		X	X	X		X				X
64	BH512_5.5	Feb 18, 2022		AUS Leachate	S22-Fe49457		X	X	X		X				X
65	QA20220218PG1	Feb 18, 2022		AUS Leachate	S22-Fe49458		X	X	X		X				X
66	QA20220218PG3	Feb 18, 2022		AUS Leachate	S22-Fe49459		X	X	X		X				X
67	BH508_0.1	Feb 18, 2022		Soil	S22-Fe49460	X									
68	BH508_1.0	Feb 18, 2022		Soil	S22-Fe49461	X									
69	BH508_1.5	Feb 18, 2022		Soil	S22-Fe49462	X									
70	BH508_2.5	Feb 18, 2022		Soil	S22-Fe49463	X									
71	BH508_3.0	Feb 18, 2022		Soil	S22-Fe49464	X									

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
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Project Name: GREEN SQUARE STAGES 3 AND 4 DSI
Project ID: 62236

Order No.:
Report #: 866070
Phone: 02 8245 0300
Fax:

Received: Feb 21, 2022 4:30 PM
Due: Mar 8, 2022
Priority: 5 Day
Contact Name: Tom Frisken

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						HOLD	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	AUS Leaching Procedure	Metals M8	BTEX	Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Moisture Set	Eurofins Suite B7	BTEX	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA # 1261 Site # 1254															X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794															
Mayfield Laboratory - NATA # 1261 Site # 25079															
Perth Laboratory - NATA # 2377 Site # 2370															
External Laboratory															
72	BH508_4.0	Feb 18, 2022		Soil	S22-Fe49465	X									
73	BH508_5.0	Feb 18, 2022		Soil	S22-Fe49466	X									
74	BH508_5.5	Feb 18, 2022		Soil	S22-Fe49467	X									
75	BH508_6.5	Feb 18, 2022		Soil	S22-Fe49468	X									
76	BH508_7.5	Feb 18, 2022		Soil	S22-Fe49469	X									
77	BH509_0.1	Feb 18, 2022		Soil	S22-Fe49470	X									
78	BH509_1.0	Feb 18, 2022		Soil	S22-Fe49471	X									
79	BH509_1.5	Feb 18, 2022		Soil	S22-Fe49472	X									
80	BH509_3.0	Feb 18, 2022		Soil	S22-Fe49473	X									
81	BH509_4.0	Feb 18, 2022		Soil	S22-Fe49474	X									
82	BH509_4.5	Feb 18, 2022		Soil	S22-Fe49475	X									

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Melbourne Laboratory - NATA # 1261 Site # 1254															X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794															
Mayfield Laboratory - NATA # 1261 Site # 25079															
Perth Laboratory - NATA # 2377 Site # 2370															
External Laboratory															
83	BH509_5.5	Feb 18, 2022		Soil	S22-Fe49476	X									
84	BH509_6.0	Feb 18, 2022		Soil	S22-Fe49477	X									
85	BH509_7.0	Feb 18, 2022		Soil	S22-Fe49478	X									
86	BH509_8.0	Feb 18, 2022		Soil	S22-Fe49479	X									
87	BH510_0.1	Feb 18, 2022		Soil	S22-Fe49480	X									
88	BH510_0.5	Feb 18, 2022		Soil	S22-Fe49481	X									
89	BH510_1.5	Feb 18, 2022		Soil	S22-Fe49482	X									
90	BH510_2.0	Feb 18, 2022		Soil	S22-Fe49483	X									
91	BH510_3.0	Feb 18, 2022		Soil	S22-Fe49484	X									
92	BH510_3.5	Feb 18, 2022		Soil	S22-Fe49485	X									
93	BH510_4.5	Feb 18, 2022		Soil	S22-Fe49486	X									

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Melbourne Laboratory - NATA # 1261 Site # 1254															X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794															
Mayfield Laboratory - NATA # 1261 Site # 25079															
Perth Laboratory - NATA # 2377 Site # 2370															
External Laboratory															
94	BH510_5.0	Feb 18, 2022		Soil	S22-Fe49487	X									
95	BH510_6.0	Feb 18, 2022		Soil	S22-Fe49488	X									
96	BH510_6.5	Feb 18, 2022		Soil	S22-Fe49489	X									
97	BH510_7.5	Feb 18, 2022		Soil	S22-Fe49490	X									
98	BH510_8.5	Feb 18, 2022		Soil	S22-Fe49491	X									
99	BH511_0.1	Feb 18, 2022		Soil	S22-Fe49492	X									
100	BH511_1.0	Feb 18, 2022		Soil	S22-Fe49493	X									
101	BH511_1.5	Feb 18, 2022		Soil	S22-Fe49494	X									
102	BH511_2.5	Feb 18, 2022		Soil	S22-Fe49495	X									
103	BH511_3.0	Feb 18, 2022		Soil	S22-Fe49496	X									
104	BH511_4.0	Feb 18, 2022		Soil	S22-Fe49497	X									

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Melbourne Laboratory - NATA # 1261 Site # 1254															X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794															
Mayfield Laboratory - NATA # 1261 Site # 25079															
Perth Laboratory - NATA # 2377 Site # 2370															
External Laboratory															
105	BH511_4.5	Feb 18, 2022		Soil	S22-Fe49498	X									
106	BH511_5.5	Feb 18, 2022		Soil	S22-Fe49499	X									
107	BH511_6.0	Feb 18, 2022		Soil	S22-Fe49500	X									
108	BH511_7.0	Feb 18, 2022		Soil	S22-Fe49501	X									
109	BH511_7.5	Feb 18, 2022		Soil	S22-Fe49502	X									
110	BH5_1_8.5	Feb 18, 2022		Soil	S22-Fe49503	X									
111	BH511_9.0	Feb 18, 2022		Soil	S22-Fe49504	X									
112	BH512_0.1	Feb 18, 2022		Soil	S22-Fe49505	X									
113	BH512_1.0	Feb 18, 2022		Soil	S22-Fe49506	X									
114	BH512_1.5	Feb 18, 2022		Soil	S22-Fe49507	X									
115	BH512_3.0	Feb 18, 2022		Soil	S22-Fe49508	X									

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Melbourne Laboratory - NATA # 1261 Site # 1254															X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794															
Mayfield Laboratory - NATA # 1261 Site # 25079															
Perth Laboratory - NATA # 2377 Site # 2370															
External Laboratory															
116	BH512_4.0	Feb 18, 2022		Soil	S22-Fe49509	X									
117	BH512_5.0	Feb 18, 2022		Soil	S22-Fe49510	X									
118	BH512_6.0	Feb 18, 2022		Soil	S22-Fe49511	X									
119	QA20220218PG2	Feb 18, 2022		Soil	S22-Fe49512	X									
120	QA20220218PG4	Feb 18, 2022		Soil	S22-Fe49513	X									
121	TRIP BLANK	Feb 18, 2022		Water	S22-Fe49514					X					
122	TRIP SPIKE	Feb 18, 2022		Water	S22-Fe49515									X	
123	BH530_0.1	Feb 18, 2022		Soil	S22-Fe49516	X									
124	BH530_0.5	Feb 18, 2022		Soil	S22-Fe49517	X									

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Melbourne Laboratory - NATA # 1261 Site # 1254															X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794															
Mayfield Laboratory - NATA # 1261 Site # 25079															
Perth Laboratory - NATA # 2377 Site # 2370															
External Laboratory															
125	BH530_1.0	Feb 18, 2022		Soil	S22-Fe49518	X									
126	BH530_1.5	Feb 18, 2022		Soil	S22-Fe49519	X									
127	BH530_2.0	Feb 18, 2022		Soil	S22-Fe49520	X									
128	BH530_2.5	Feb 18, 2022		Soil	S22-Fe49521	X									
129	BH530_3.0	Feb 18, 2022		Soil	S22-Fe49522	X									
130	BH530_3.5	Feb 18, 2022		Soil	S22-Fe49523	X									
131	BH530_4.0	Feb 18, 2022		Soil	S22-Fe49524	X									
132	BH530_4.5	Feb 18, 2022		Soil	S22-Fe49525	X									
133	BH530_5.0	Feb 18, 2022		Soil	S22-Fe49526	X									
134	BH530_5.5	Feb 18, 2022		Soil	S22-Fe49527	X									
135	BH530_6.0	Feb 18, 2022		Soil	S22-Fe49528	X									

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Melbourne Laboratory - NATA # 1261 Site # 1254															X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794															
Mayfield Laboratory - NATA # 1261 Site # 25079															
Perth Laboratory - NATA # 2377 Site # 2370															
External Laboratory															
136	BH530_6.5	Feb 18, 2022		Soil	S22-Fe49529	X									
137	BH530_7.0	Feb 18, 2022		Soil	S22-Fe49530	X									
138	BH530_7.5	Feb 18, 2022		Soil	S22-Fe49531	X									
139	BH530_8.0	Feb 18, 2022		Soil	S22-Fe49532	X									
140	BH530_8.5	Feb 18, 2022		Soil	S22-Fe49533	X									
141	BH530_9.0	Feb 18, 2022		Soil	S22-Fe49534	X									
142	BH530_9.5	Feb 18, 2022		Soil	S22-Fe49535	X									
143	BH530_10.0	Feb 18, 2022		Soil	S22-Fe49536	X									
144	BH530_10.5	Feb 18, 2022		Soil	S22-Fe49537	X									
145	BH530_11.0	Feb 18, 2022		Soil	S22-Fe49538	X									
146	BH508_0.1	Feb 18, 2022		AUS Leachate	S22-Fe49539	X									

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Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794															
Mayfield Laboratory - NATA # 1261 Site # 25079															
Perth Laboratory - NATA # 2377 Site # 2370															
External Laboratory															
147	BH508_1.0	Feb 18, 2022		AUS Leachate	S22-Fe49540	X									
148	BH508_1.5	Feb 18, 2022		AUS Leachate	S22-Fe49541	X									
149	BH508_2.5	Feb 18, 2022		AUS Leachate	S22-Fe49542	X									
150	BH508_3.0	Feb 18, 2022		AUS Leachate	S22-Fe49543	X									
151	BH508_4.0	Feb 18, 2022		AUS Leachate	S22-Fe49544	X									
152	BH508_5.0	Feb 18, 2022		AUS Leachate	S22-Fe49545	X									
153	BH508_5.5	Feb 18, 2022		AUS Leachate	S22-Fe49546	X									
154	BH508_6.5	Feb 18, 2022		AUS Leachate	S22-Fe49547	X									
155	BH508_7.5	Feb 18, 2022		AUS Leachate	S22-Fe49548	X									
156	BH509_0.1	Feb 18, 2022		AUS Leachate	S22-Fe49549	X									
157	BH509_1.0	Feb 18, 2022		AUS Leachate	S22-Fe49550	X									

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
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NSW 2000

Project Name: GREEN SQUARE STAGES 3 AND 4 DSI
Project ID: 62236

Order No.:
Report #: 866070
Phone: 02 8245 0300
Fax:

Received: Feb 21, 2022 4:30 PM
Due: Mar 8, 2022
Priority: 5 Day
Contact Name: Tom Frisken

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						HOLD	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	AUS Leaching Procedure	Metals M8	BTEX	Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Moisture Set	Eurofins Suite B7	BTEX	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA # 1261 Site # 1254															X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794															
Mayfield Laboratory - NATA # 1261 Site # 25079															
Perth Laboratory - NATA # 2377 Site # 2370															
External Laboratory															
158	BH509_1.5	Feb 18, 2022		AUS Leachate	S22-Fe49551	X									
159	BH509_3.0	Feb 18, 2022		AUS Leachate	S22-Fe49552	X									
160	BH509_4.0	Feb 18, 2022		AUS Leachate	S22-Fe49553	X									
161	BH509_4.5	Feb 18, 2022		AUS Leachate	S22-Fe49554	X									
162	BH509_5.5	Feb 18, 2022		AUS Leachate	S22-Fe49555	X									
163	BH509_6.0	Feb 18, 2022		AUS Leachate	S22-Fe49556	X									
164	BH509_7.0	Feb 18, 2022		AUS Leachate	S22-Fe49557	X									
165	BH509_8.0	Feb 18, 2022		AUS Leachate	S22-Fe49558	X									
166	BH510_0.1	Feb 18, 2022		AUS Leachate	S22-Fe49559	X									
167	BH510_0.5	Feb 18, 2022		AUS Leachate	S22-Fe49560	X									
168	BH510_1.5	Feb 18, 2022		AUS Leachate	S22-Fe49561	X									

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Project ID: 62236

Order No.:
Report #: 866070
Phone: 02 8245 0300
Fax:

Received: Feb 21, 2022 4:30 PM
Due: Mar 8, 2022
Priority: 5 Day
Contact Name: Tom Frisken

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						HOLD	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	AUS Leaching Procedure	Metals M8	BTEX	Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Moisture Set	Eurofins Suite B7	BTEX	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA # 1261 Site # 1254															X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794															
Mayfield Laboratory - NATA # 1261 Site # 25079															
Perth Laboratory - NATA # 2377 Site # 2370															
External Laboratory															
169	BH510_2.0	Feb 18, 2022		AUS Leachate	S22-Fe49562	X									
170	BH510_3.0	Feb 18, 2022		AUS Leachate	S22-Fe49563	X									
171	BH510_3.5	Feb 18, 2022		AUS Leachate	S22-Fe49564	X									
172	BH510_4.5	Feb 18, 2022		AUS Leachate	S22-Fe49565	X									
173	BH510_5.0	Feb 18, 2022		AUS Leachate	S22-Fe49566	X									
174	BH510_6.0	Feb 18, 2022		AUS Leachate	S22-Fe49567	X									
175	BH510_6.5	Feb 18, 2022		AUS Leachate	S22-Fe49568	X									
176	BH510_7.5	Feb 18, 2022		AUS Leachate	S22-Fe49569	X									
177	BH510_8.5	Feb 18, 2022		AUS Leachate	S22-Fe49570	X									
178	BH511_0.1	Feb 18, 2022		AUS Leachate	S22-Fe49571	X									
179	BH511_1.0	Feb 18, 2022		AUS Leachate	S22-Fe49572	X									

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Company Name: JBS & G Australia (NSW) P/L
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Project ID: 62236

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Phone: 02 8245 0300
Fax:

Received: Feb 21, 2022 4:30 PM
Due: Mar 8, 2022
Priority: 5 Day
Contact Name: Tom Frisken

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						HOLD	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	AUS Leaching Procedure	Metals M8	BTEX	Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Moisture Set	Eurofins Suite B7	BTEX	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA # 1261 Site # 1254															X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794															
Mayfield Laboratory - NATA # 1261 Site # 25079															
Perth Laboratory - NATA # 2377 Site # 2370															
External Laboratory															
180	BH511_1.5	Feb 18, 2022		AUS Leachate	S22-Fe49573	X									
181	BH511_2.5	Feb 18, 2022		AUS Leachate	S22-Fe49574	X									
182	BH511_3.0	Feb 18, 2022		AUS Leachate	S22-Fe49575	X									
183	BH511_4.0	Feb 18, 2022		AUS Leachate	S22-Fe49576	X									
184	BH511_4.5	Feb 18, 2022		AUS Leachate	S22-Fe49577	X									
185	BH511_5.5	Feb 18, 2022		AUS Leachate	S22-Fe49578	X									
186	BH511_6.0	Feb 18, 2022		AUS Leachate	S22-Fe49579	X									
187	BH511_7.0	Feb 18, 2022		AUS Leachate	S22-Fe49580	X									
188	BH511_7.5	Feb 18, 2022		AUS Leachate	S22-Fe49581	X									
189	BH511_8.5	Feb 18, 2022		AUS Leachate	S22-Fe49582	X									
190	BH511_9.0	Feb 18, 2022		AUS Leachate	S22-Fe49583	X									

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
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Project Name: GREEN SQUARE STAGES 3 AND 4 DSI
Project ID: 62236

Order No.:
Report #: 866070
Phone: 02 8245 0300
Fax:

Received: Feb 21, 2022 4:30 PM
Due: Mar 8, 2022
Priority: 5 Day
Contact Name: Tom Frisken

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						HOLD	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	AUS Leaching Procedure	Metals M8	BTEX	Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Moisture Set	Eurofins Suite B7	BTEX	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA # 1261 Site # 1254															X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794															
Mayfield Laboratory - NATA # 1261 Site # 25079															
Perth Laboratory - NATA # 2377 Site # 2370															
External Laboratory															
191	BH512_0.1	Feb 18, 2022		AUS Leachate	S22-Fe49584	X									
192	BH512_1.0	Feb 18, 2022		AUS Leachate	S22-Fe49585	X									
193	BH512_1.5	Feb 18, 2022		AUS Leachate	S22-Fe49586	X									
194	BH512_3.0	Feb 18, 2022		AUS Leachate	S22-Fe49587	X									
195	BH512_4.0	Feb 18, 2022		AUS Leachate	S22-Fe49588	X									
196	BH512_5.0	Feb 18, 2022		AUS Leachate	S22-Fe49589	X									
197	BH512_6.0	Feb 18, 2022		AUS Leachate	S22-Fe49590	X									
198	QA20220218__PG2	Feb 18, 2022		AUS Leachate	S22-Fe49591	X									
199	QA20220218__PG4	Feb 18, 2022		AUS Leachate	S22-Fe49592	X									

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Company Name: JBS & G Australia (NSW) P/L
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Project Name: GREEN SQUARE STAGES 3 AND 4 DSI
Project ID: 62236

Order No.:
Report #: 866070
Phone: 02 8245 0300
Fax:

Received: Feb 21, 2022 4:30 PM
Due: Mar 8, 2022
Priority: 5 Day
Contact Name: Tom Frisken

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						HOLD	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	AUS Leaching Procedure	Metals M8	BTEX	Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Moisture Set	Eurofins Suite B7	BTEX	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA # 1261 Site # 1254															X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794															
Mayfield Laboratory - NATA # 1261 Site # 25079															
Perth Laboratory - NATA # 2377 Site # 2370															
External Laboratory															
200	BH530_0.1	Feb 18, 2022		AUS Leachate	S22-Fe49593	X									
201	BH530_0.5	Feb 18, 2022		AUS Leachate	S22-Fe49594	X									
202	BH530_1.0	Feb 18, 2022		AUS Leachate	S22-Fe49595	X									
203	BH530_1.5	Feb 18, 2022		AUS Leachate	S22-Fe49596	X									
204	BH530_2.0	Feb 18, 2022		AUS Leachate	S22-Fe49597	X									
205	BH530_2.5	Feb 18, 2022		AUS Leachate	S22-Fe49598	X									
206	BH530_3.0	Feb 18, 2022		AUS Leachate	S22-Fe49599	X									
207	BH530_3.5	Feb 18, 2022		AUS Leachate	S22-Fe49600	X									
208	BH530_4.0	Feb 18, 2022		AUS Leachate	S22-Fe49601	X									
209	BH530_4.5	Feb 18, 2022		AUS Leachate	S22-Fe49602	X									
210	BH530_5.0	Feb 18, 2022		AUS Leachate	S22-Fe49603	X									

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Sample Detail						HOLD	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	AUS Leaching Procedure	Metals M8	BTEX	Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Moisture Set	Eurofins Suite B7	BTEX	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA # 1261 Site # 1254															X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794															
Mayfield Laboratory - NATA # 1261 Site # 25079															
Perth Laboratory - NATA # 2377 Site # 2370															
External Laboratory															
211	BH530_5.5	Feb 18, 2022		AUS Leachate	S22-Fe49604	X									
212	BH530_6.0	Feb 18, 2022		AUS Leachate	S22-Fe49605	X									
213	BH530_6.5	Feb 18, 2022		AUS Leachate	S22-Fe49606	X									
214	BH530_7.0	Feb 18, 2022		AUS Leachate	S22-Fe49607	X									
215	BH530_7.5	Feb 18, 2022		AUS Leachate	S22-Fe49608	X									
216	BH530_8.0	Feb 18, 2022		AUS Leachate	S22-Fe49609	X									
217	BH530_8.5	Feb 18, 2022		AUS Leachate	S22-Fe49610	X									
218	BH530_9.0	Feb 18, 2022		AUS Leachate	S22-Fe49611	X									
219	BH530_9.5	Feb 18, 2022		AUS Leachate	S22-Fe49612	X									
220	BH530_10.0	Feb 18, 2022		AUS Leachate	S22-Fe49613	X									
221	BH530_10.5	Feb 18, 2022		AUS Leachate	S22-Fe49614	X									

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Project ID: 62236

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Priority: 5 Day
Contact Name: Tom Frisken

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						HOLD	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	AUS Leaching Procedure	Metals M8	BTEX	Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Moisture Set	Eurofins Suite B7	BTEX	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA # 1261 Site # 1254															X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794															
Mayfield Laboratory - NATA # 1261 Site # 25079															
Perth Laboratory - NATA # 2377 Site # 2370															
External Laboratory															
222	BH530_11.0	Feb 18, 2022		AUS Leachate	S22-Fe49615	X									
Test Counts						154	33	33	33	1	33	33	33	1	33

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NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: **Tom Frisken**

Report **866070-S-V2**
Project name GREEN SQUARE STAGES 3 AND 4 DSI
Project ID 62236
Received Date Feb 21, 2022

Client Sample ID			**BH508_0.5**	**BH508_2.0**	**BH508_3.5**	**BH508_4.5**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**S22-Fe49394**	**S22-Fe49395**	**S22-Fe49396**	**S22-Fe49397**
Date Sampled			**Feb 18, 2022**	**Feb 18, 2022**	**Feb 18, 2022**	**Feb 18, 2022**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	110	< 20
TRH C15-C28	50	mg/kg	< 50	110	400	250
TRH C29-C36	50	mg/kg	< 50	< 50	240	190
TRH C10-C36 (Total)	50	mg/kg	< 50	110	750	440
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 100	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 100	< 50
TRH >C16-C34	100	mg/kg	< 100	150	560	390
TRH >C34-C40	100	mg/kg	< 100	< 100	< 200	110
TRH >C10-C40 (total)*	100	mg/kg	< 100	150	560	500
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	84	74	103	110
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	3.0	2.3
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.7	3.2	2.5
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	3.5	2.8
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	0.7	0.7
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	2.1	1.7
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	2.2	1.6
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	1.8	1.3
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	1.4	1.3
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	0.7	2.4	2.5
Chrysene	0.5	mg/kg	0.7	0.7	3.6	3.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			BH508_0.5	BH508_2.0	BH508_3.5	BH508_4.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Fe49394	S22-Fe49395	S22-Fe49396	S22-Fe49397
Date Sampled			Feb 18, 2022	Feb 18, 2022	Feb 18, 2022	Feb 18, 2022
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Fluoranthene	0.5	mg/kg	1.0	0.7	4.1	3.4
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	1.0	1.0
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	1.3	< 0.5	1.6	1.4
Pyrene	0.5	mg/kg	1.0	0.9	4.7	3.9
Total PAH*	0.5	mg/kg	4	3	25.6	22.3
2-Fluorobiphenyl (surr.)	1	%	104	104	90	84
p-Terphenyl-d14 (surr.)	1	%	77	70	57	57
Heavy Metals						
Arsenic	2	mg/kg	2.7	5.3	5.4	6.6
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	7.2	6.9	13	14
Copper	5	mg/kg	84	83	110	110
Lead	5	mg/kg	26	110	180	200
Mercury	0.1	mg/kg	< 0.1	0.2	1.5	1.9
Nickel	5	mg/kg	10	13	13	17
Zinc	5	mg/kg	44	190	190	230
% Moisture	1	%	6.0	17	8.3	9.6

Client Sample ID			BH508_6.0	BH508_7.0	BH509_0.5	BH509_2.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Fe49398	S22-Fe49399	S22-Fe49400	S22-Fe49401
Date Sampled			Feb 18, 2022	Feb 18, 2022	Feb 18, 2022	Feb 18, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	94	< 50	170
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	94	< 50	170
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	110	< 100	220
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	110	< 100	220
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	79	111	114	105

Client Sample ID			BH508_6.0	BH508_7.0	BH509_0.5	BH509_2.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Fe49398	S22-Fe49399	S22-Fe49400	S22-Fe49401
Date Sampled			Feb 18, 2022	Feb 18, 2022	Feb 18, 2022	Feb 18, 2022
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	1.3	< 0.5	1.3
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	1.5	0.6	1.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.8	1.2	1.9
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	1.1
Benz(a)anthracene	0.5	mg/kg	< 0.5	0.9	< 0.5	1.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	1.0	< 0.5	0.9
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	0.6	< 0.5	0.8
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	0.6	< 0.5	0.7
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	0.9	< 0.5	1.8
Chrysene	0.5	mg/kg	< 0.5	1.2	< 0.5	2.6
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	1.5	< 0.5	2.8
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	0.7	< 0.5	2.4
Pyrene	0.5	mg/kg	< 0.5	1.7	< 0.5	3.3
Total PAH*	0.5	mg/kg	< 0.5	9.1	< 0.5	17.9
2-Fluorobiphenyl (surr.)	1	%	126	89	100	98
p-Terphenyl-d14 (surr.)	1	%	114	69	77	63
Heavy Metals						
Arsenic	2	mg/kg	< 2	< 2	< 2	7.3
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	1.3
Chromium	5	mg/kg	< 5	< 5	< 5	14
Copper	5	mg/kg	< 5	9.4	69	110
Lead	5	mg/kg	9.8	60	11	370
Mercury	0.1	mg/kg	< 0.1	0.1	< 0.1	0.5
Nickel	5	mg/kg	< 5	< 5	6.9	14
Zinc	5	mg/kg	63	86	34	320
% Moisture	1	%	16	16	6.1	8.6

Client Sample ID			BH509_2.5	BH509_3.5	BH509_5.0	BH509_6.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Fe49402	S22-Fe49403	S22-Fe49404	S22-Fe49405
Date Sampled			Feb 18, 2022	Feb 18, 2022	Feb 18, 2022	Feb 18, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	52	< 20
TRH C15-C28	50	mg/kg	610	560	2600	180
TRH C29-C36	50	mg/kg	590	81	1200	< 50
TRH C10-C36 (Total)	50	mg/kg	1200	641	3852	180
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20

Client Sample ID			BH509_2.5	BH509_3.5	BH509_5.0	BH509_6.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Fe49402	S22-Fe49403	S22-Fe49404	S22-Fe49405
Date Sampled			Feb 18, 2022	Feb 18, 2022	Feb 18, 2022	Feb 18, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH >C10-C16	50	mg/kg	< 50	< 50	180	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	180	< 50
TRH >C16-C34	100	mg/kg	1100	700	3400	220
TRH >C34-C40	100	mg/kg	320	210	660	< 100
TRH >C10-C40 (total)*	100	mg/kg	1420	910	4240	220
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	107	117	110	109
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	1.2	6.2	13	1.9
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	1.4	6.2	16	2.1
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.7	6.2	19	2.4
Acenaphthene	0.5	mg/kg	0.5	1.2	10	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 5	< 0.5
Anthracene	0.5	mg/kg	1.0	2.4	18	0.6
Benz(a)anthracene	0.5	mg/kg	1.2	3.2	14	1.2
Benzo(a)pyrene	0.5	mg/kg	0.7	3.9	9.1	1.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	0.9	2.2	7.1	0.8
Benzo(g.h.i)perylene	0.5	mg/kg	0.8	2.1	7.5	0.9
Benzo(k)fluoranthene	0.5	mg/kg	1.6	3.9	17	1.0
Chrysene	0.5	mg/kg	2.4	5.8	26	1.7
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	1.1	< 5	< 0.5
Fluoranthene	0.5	mg/kg	2.5	7.8	41	3.0
Fluorene	0.5	mg/kg	0.5	0.9	< 10	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	0.7	1.6	< 10	0.7
Naphthalene	0.5	mg/kg	< 0.5	0.6	< 5	< 0.5
Phenanthrene	0.5	mg/kg	2.5	3.7	25	1.7
Pyrene	0.5	mg/kg	3.1	7.9	43	3.0
Total PAH*	0.5	mg/kg	18.4	48.3	217.7	16.1
2-Fluorobiphenyl (surr.)	1	%	85	85	97	88
p-Terphenyl-d14 (surr.)	1	%	60	53	77	73
Heavy Metals						
Arsenic	2	mg/kg	6.4	14	14	11
Cadmium	0.4	mg/kg	3.4	1.0	0.9	12
Chromium	5	mg/kg	15	33	21	44
Copper	5	mg/kg	110	100	100	280
Lead	5	mg/kg	280	1200	320	570
Mercury	0.1	mg/kg	0.3	0.6	0.4	0.8
Nickel	5	mg/kg	22	18	17	68
Zinc	5	mg/kg	470	790	520	340
% Moisture	1	%	8.9	8.9	9.1	19

Client Sample ID			BH509_7.5	BH510_1.0	BH510_2.5	BH510_4.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Fe49406	S22-Fe49407	S22-Fe49408	S22-Fe49409
Date Sampled			Feb 18, 2022	Feb 18, 2022	Feb 18, 2022	Feb 18, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	58	140	170	210
TRH C29-C36	50	mg/kg	67	< 50	120	< 50
TRH C10-C36 (Total)	50	mg/kg	125	140	290	210
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	100	190	250	240
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	100	190	250	240
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	108	110	99	113
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	2.4	1.1	2.1
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	2.7	1.4	2.3
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	2.9	1.6	2.6
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	0.7	1.3
Benz(a)anthracene	0.5	mg/kg	< 0.5	1.6	1.4	1.9
Benzo(a)pyrene	0.5	mg/kg	< 0.5	1.8	0.7	1.3
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	1.4	0.6	1.3
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	1.2	0.7	1.1
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	1.7	1.6	2.9
Chrysene	0.5	mg/kg	< 0.5	2.2	2.7	4.6
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	2.9	2.5	5.1
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	1.1	< 0.5	0.9
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	1.7	1.5	3.3
Pyrene	0.5	mg/kg	< 0.5	3.1	2.7	5.4
Total PAH*	0.5	mg/kg	< 0.5	18.7	15.1	29.1
2-Fluorobiphenyl (surr.)	1	%	84	106	90	93
p-Terphenyl-d14 (surr.)	1	%	59	78	59	58
Heavy Metals						
Arsenic	2	mg/kg	6.7	18	14	9.0
Cadmium	0.4	mg/kg	18	0.5	1.2	< 0.4
Chromium	5	mg/kg	18	18	25	21
Copper	5	mg/kg	350	81	160	36

Client Sample ID			BH509_7.5	BH510_1.0	BH510_2.5	BH510_4.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Fe49406	S22-Fe49407	S22-Fe49408	S22-Fe49409
Date Sampled			Feb 18, 2022	Feb 18, 2022	Feb 18, 2022	Feb 18, 2022
Test/Reference	LOR	Unit				
Heavy Metals						
Lead	5	mg/kg	510	160	400	110
Mercury	0.1	mg/kg	0.3	0.2	0.6	0.1
Nickel	5	mg/kg	23	17	25	6.8
Zinc	5	mg/kg	270	200	510	180
% Moisture	1	%	20	10.0	11	16

Client Sample ID			BH510_5.5	BH510_7.0	BH510_8.0	BH511_0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Fe49410	S22-Fe49411	S22-Fe49412	S22-Fe49413
Date Sampled			Feb 18, 2022	Feb 18, 2022	Feb 18, 2022	Feb 18, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	260	350	180	< 50
TRH C29-C36	50	mg/kg	180	250	130	< 50
TRH C10-C36 (Total)	50	mg/kg	440	600	310	< 50
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	390	540	270	< 100
TRH >C34-C40	100	mg/kg	100	140	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	490	680	270	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	111	66	92	101
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	2.7	3.1	1.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	2.9	3.4	1.8	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	3.2	3.6	2.0	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	0.8	0.7	0.6	< 0.5
Benz(a)anthracene	0.5	mg/kg	2.0	2.3	1.2	< 0.5
Benzo(a)pyrene	0.5	mg/kg	2.0	2.3	1.1	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	1.5	1.8	1.0	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	1.0	1.2	0.6	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	2.3	2.6	1.3	< 0.5
Chrysene	0.5	mg/kg	2.8	3.1	1.7	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			BH510_5.5	BH510_7.0	BH510_8.0	BH511_0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Fe49410	S22-Fe49411	S22-Fe49412	S22-Fe49413
Date Sampled			Feb 18, 2022	Feb 18, 2022	Feb 18, 2022	Feb 18, 2022
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Fluoranthene	0.5	mg/kg	4.3	5.0	2.7	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	0.7	1.1	0.6	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	3.5	3.4	2.4	< 0.5
Pyrene	0.5	mg/kg	4.5	5.8	2.8	< 0.5
Total PAH*	0.5	mg/kg	25.9	29.3	16	< 0.5
2-Fluorobiphenyl (surr.)	1	%	[Q09]INT	98	90	86
p-Terphenyl-d14 (surr.)	1	%	103	88	78	95
Heavy Metals						
Arsenic	2	mg/kg	15	11	6.8	< 2
Cadmium	0.4	mg/kg	1.2	0.8	0.5	< 0.4
Chromium	5	mg/kg	57	35	24	5.6
Copper	5	mg/kg	730	360	210	44
Lead	5	mg/kg	470	380	300	17
Mercury	0.1	mg/kg	0.5	0.4	0.2	< 0.1
Nickel	5	mg/kg	70	38	21	< 5
Zinc	5	mg/kg	860	590	340	32
% Moisture	1	%	16	15	13	8.0

Client Sample ID			BH511_2.0	BH511_3.5	BH511_5.0	BH511_6.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Fe49414	S22-Fe49415	S22-Fe49416	S22-Fe49417
Date Sampled			Feb 18, 2022	Feb 18, 2022	Feb 18, 2022	Feb 18, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	75	88	80
TRH C29-C36	50	mg/kg	< 50	52	66	64
TRH C10-C36 (Total)	50	mg/kg	< 50	127	154	144
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	110	130	130
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	110	130	130
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	115	106	96	96

Client Sample ID			BH511_2.0	BH511_3.5	BH511_5.0	BH511_6.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Fe49414	S22-Fe49415	S22-Fe49416	S22-Fe49417
Date Sampled			Feb 18, 2022	Feb 18, 2022	Feb 18, 2022	Feb 18, 2022
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	0.9	1.1	0.9	1.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	1.1	1.4	1.1	1.8
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.4	1.7	1.4	2.0
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	0.6	0.8	0.7	1.0
Benzo(a)pyrene	0.5	mg/kg	0.7	0.9	0.7	1.2
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	0.5	< 0.5	< 0.5	0.7
Benzo(g.h.i)perylene	0.5	mg/kg	0.5	0.5	0.5	0.7
Benzo(k)fluoranthene	0.5	mg/kg	0.5	0.6	0.6	0.8
Chrysene	0.5	mg/kg	0.7	1.2	1.0	0.8
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	0.9	1.3	1.3	1.3
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	0.8	1.0	< 0.5
Pyrene	0.5	mg/kg	1.0	1.5	1.4	1.7
Total PAH*	0.5	mg/kg	5.4	7.6	7.2	8.7
2-Fluorobiphenyl (surr.)	1	%	96	89	97	65
p-Terphenyl-d14 (surr.)	1	%	85	85	83	76
Heavy Metals						
Arsenic	2	mg/kg	7.7	10.0	6.8	7.2
Cadmium	0.4	mg/kg	0.7	1.0	0.4	< 0.4
Chromium	5	mg/kg	13	30	28	19
Copper	5	mg/kg	29	110	61	170
Lead	5	mg/kg	170	430	270	560
Mercury	0.1	mg/kg	0.2	0.3	0.2	0.9
Nickel	5	mg/kg	< 5	12	6.4	17
Zinc	5	mg/kg	89	220	130	360
% Moisture	1	%	10	9.7	9.6	11

Client Sample ID			BH511_8.0	BH512_0.5	BH512_2.0	BH512_2.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Fe49418	S22-Fe49419	S22-Fe49420	S22-Fe49421
Date Sampled			Feb 18, 2022	Feb 18, 2022	Feb 18, 2022	Feb 18, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	90	< 50	64	52
TRH C29-C36	50	mg/kg	56	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	146	< 50	64	52
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20

Client Sample ID			BH511_8.0	BH512_0.5	BH512_2.0	BH512_2.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Fe49418	S22-Fe49419	S22-Fe49420	S22-Fe49421
Date Sampled			Feb 18, 2022	Feb 18, 2022	Feb 18, 2022	Feb 18, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	130	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	130	< 100	< 100	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	108	110	97	94
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	3.3	< 0.5	0.9	0.8
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	3.6	0.6	1.2	1.1
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	3.8	1.2	1.5	1.4
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	2.6	< 0.5	0.7	0.5
Benzo(a)pyrene	0.5	mg/kg	2.6	< 0.5	0.8	0.7
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	1.1	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	2.1	< 0.5	0.6	0.6
Chrysene	0.5	mg/kg	2.4	< 0.5	0.8	0.8
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	3.3	< 0.5	1.1	1.0
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	1.2	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	0.6	< 0.5	0.8	0.5
Pyrene	0.5	mg/kg	4.0	< 0.5	1.1	0.9
Total PAH*	0.5	mg/kg	19.9	< 0.5	6.4	5
2-Fluorobiphenyl (surr.)	1	%	105	100	103	97
p-Terphenyl-d14 (surr.)	1	%	80	72	86	87
Heavy Metals						
Arsenic	2	mg/kg	5.1	< 2	9.0	47
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	11	6.5	13	26
Copper	5	mg/kg	96	28	46	180
Lead	5	mg/kg	360	13	180	720
Mercury	0.1	mg/kg	0.4	< 0.1	0.1	0.1
Nickel	5	mg/kg	6.7	6.2	8.4	12
Zinc	5	mg/kg	280	23	180	140
% Moisture	1	%	10	7.4	11	10

Client Sample ID			BH512_3.5	BH512_4.5	BH512_5.5	QA20220218PG1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Fe49422	S22-Fe49423	S22-Fe49424	S22-Fe49425
Date Sampled			Feb 18, 2022	Feb 18, 2022	Feb 18, 2022	Feb 18, 2022
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 200	< 200	< 200	< 20
TRH C10-C14	20	mg/kg	460	500	< 200	< 20
TRH C15-C28	50	mg/kg	9300	9200	3600	58
TRH C29-C36	50	mg/kg	3200	3200	1400	< 50
TRH C10-C36 (Total)	50	mg/kg	12960	12900	5000	58
Naphthalene[N02]	0.5	mg/kg	30	62	22	< 0.5
TRH C6-C10	20	mg/kg	< 200	< 200	< 200	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 200	< 200	< 200	< 20
TRH >C10-C16	50	mg/kg	1400	1300	< 500	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	1370	1238	< 500	< 50
TRH >C16-C34	100	mg/kg	11000	11000	4400	< 100
TRH >C34-C40	100	mg/kg	1600	1700	< 1000	< 100
TRH >C10-C40 (total)*	100	mg/kg	14000	14000	4400	< 100
BTEX						
Benzene	0.1	mg/kg	< 1	< 1	< 1	< 0.1
Toluene	0.1	mg/kg	< 1	< 1	< 1	< 0.1
Ethylbenzene	0.1	mg/kg	< 1	< 1	< 1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 2	< 2	< 2	< 0.2
o-Xylene	0.1	mg/kg	< 1	< 1	< 1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 3	< 3	< 3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	107	111	102	91
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	230	290	99	0.8
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	230	290	99	1.1
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	230	290	99	1.4
Acenaphthene	0.5	mg/kg	16	20	7.0	< 0.5
Acenaphthylene	0.5	mg/kg	110	95	34	< 0.5
Anthracene	0.5	mg/kg	180	150	76	< 0.5
Benz(a)anthracene	0.5	mg/kg	220	240	89	0.6
Benzo(a)pyrene	0.5	mg/kg	150	200	66	0.7
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	100	130	43	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	67	84	29	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	120	150	59	0.6
Chrysene	0.5	mg/kg	180	210	86	0.9
Dibenz(a.h)anthracene	0.5	mg/kg	25	31	9.9	< 0.5
Fluoranthene	0.5	mg/kg	490	600	200	0.9
Fluorene	0.5	mg/kg	83	110	29	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	67	86	30	< 0.5
Naphthalene	0.5	mg/kg	88	160	22	< 0.5
Phenanthrene	0.5	mg/kg	500	710	280	0.5
Pyrene	0.5	mg/kg	500	530	200	1.0
Total PAH*	0.5	mg/kg	2896	3506	1259.9	5.2
2-Fluorobiphenyl (surr.)	1	%	91	98	91	97
p-Terphenyl-d14 (surr.)	1	%	103	92	85	72
Heavy Metals						
Arsenic	2	mg/kg	570	77	38	10
Cadmium	0.4	mg/kg	0.9	0.6	< 0.4	< 0.4
Chromium	5	mg/kg	23	16	16	12
Copper	5	mg/kg	1100	170	95	53

Client Sample ID			BH512_3.5	BH512_4.5	BH512_5.5	QA20220218PG1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S22-Fe49422	S22-Fe49423	S22-Fe49424	S22-Fe49425
Date Sampled			Feb 18, 2022	Feb 18, 2022	Feb 18, 2022	Feb 18, 2022
Test/Reference	LOR	Unit				
Heavy Metals						
Lead	5	mg/kg	5100	1100	360	110
Mercury	0.1	mg/kg	0.3	0.2	0.2	0.2
Nickel	5	mg/kg	39	12	25	6.9
Zinc	5	mg/kg	130	81	74	160
% Moisture	1	%	5.5	4.1	8.1	14

Client Sample ID			QA20220218PG3
Sample Matrix			Soil
Eurofins Sample No.			S22-Fe49426
Date Sampled			Feb 18, 2022
Test/Reference	LOR	Unit	
Total Recoverable Hydrocarbons			
TRH C6-C9	20	mg/kg	< 20
TRH C10-C14	20	mg/kg	< 20
TRH C15-C28	50	mg/kg	190
TRH C29-C36	50	mg/kg	160
TRH C10-C36 (Total)	50	mg/kg	350
Naphthalene[N02]	0.5	mg/kg	< 0.5
TRH C6-C10	20	mg/kg	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20
TRH >C10-C16	50	mg/kg	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50
TRH >C16-C34	100	mg/kg	330
TRH >C34-C40	100	mg/kg	100
TRH >C10-C40 (total)*	100	mg/kg	430
BTEX			
Benzene	0.1	mg/kg	< 0.1
Toluene	0.1	mg/kg	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2
o-Xylene	0.1	mg/kg	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3
4-Bromofluorobenzene (surr.)	1	%	100
Polycyclic Aromatic Hydrocarbons			
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	2.0
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	2.3
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	2.5
Acenaphthene	0.5	mg/kg	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5
Anthracene	0.5	mg/kg	0.8
Benz(a)anthracene	0.5	mg/kg	1.5
Benzo(a)pyrene	0.5	mg/kg	1.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	1.3
Benzo(g.h.i)perylene	0.5	mg/kg	0.7
Benzo(k)fluoranthene	0.5	mg/kg	1.5
Chrysene	0.5	mg/kg	2.1

Client Sample ID			QA20220218PG3
Sample Matrix			**Soil**
Eurofins Sample No.			**S22-Fe49426**
Date Sampled			**Feb 18, 2022**
Test/Reference	LOR	Unit	
Polycyclic Aromatic Hydrocarbons			
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5
Fluoranthene	0.5	mg/kg	3.4
Fluorene	0.5	mg/kg	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	0.8
Naphthalene	0.5	mg/kg	< 0.5
Phenanthrene	0.5	mg/kg	3.2
Pyrene	0.5	mg/kg	3.2
Total PAH*	0.5	mg/kg	20
2-Fluorobiphenyl (surr.)	1	%	101
p-Terphenyl-d14 (surr.)	1	%	72
Heavy Metals			
Arsenic	2	mg/kg	6.8
Cadmium	0.4	mg/kg	3.3
Chromium	5	mg/kg	16
Copper	5	mg/kg	120
Lead	5	mg/kg	340
Mercury	0.1	mg/kg	0.3
Nickel	5	mg/kg	19
Zinc	5	mg/kg	550
% Moisture	1	%	8.3

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Feb 24, 2022	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Feb 24, 2022	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Feb 24, 2022	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Feb 24, 2022	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			
Polycyclic Aromatic Hydrocarbons	Sydney	Feb 24, 2022	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Metals M8	Sydney	Feb 24, 2022	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
% Moisture	Sydney	Feb 24, 2022	14 Days
- Method: LTM-GEN-7080 Moisture			

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
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Project Name: GREEN SQUARE STAGES 3 AND 4 DSI
Project ID: 62236

Order No.:
Report #: 866070
Phone: 02 8245 0300
Fax:

Received: Feb 21, 2022 4:30 PM
Due: Mar 8, 2022
Priority: 5 Day
Contact Name: Tom Frisken

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						HOLD	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	AUS Leaching Procedure	Metals M8	BTEX	Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Moisture Set	Eurofins Suite B7	BTEX	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA # 1261 Site # 1254															X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794															
Mayfield Laboratory - NATA # 1261 Site # 25079															
Perth Laboratory - NATA # 2377 Site # 2370															
External Laboratory															
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**										
1	BH508_0.5	Feb 18, 2022		Soil	S22-Fe49394							X	X		
2	BH508_2.0	Feb 18, 2022		Soil	S22-Fe49395							X	X		
3	BH508_3.5	Feb 18, 2022		Soil	S22-Fe49396							X	X		
4	BH508_4.5	Feb 18, 2022		Soil	S22-Fe49397							X	X		
5	BH508_6.0	Feb 18, 2022		Soil	S22-Fe49398							X	X		
6	BH508_7.0	Feb 18, 2022		Soil	S22-Fe49399							X	X		
7	BH509_0.5	Feb 18, 2022		Soil	S22-Fe49400							X	X		
8	BH509_2.0	Feb 18, 2022		Soil	S22-Fe49401							X	X		
9	BH509_2.5	Feb 18, 2022		Soil	S22-Fe49402							X	X		

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Project ID: 62236

Order No.:
Report #: 866070
Phone: 02 8245 0300
Fax:

Received: Feb 21, 2022 4:30 PM
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Contact Name: Tom Frisken

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						HOLD	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	AUS Leaching Procedure	Metals M8	BTEX	Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Moisture Set	Eurofins Suite B7	BTEX	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA # 1261 Site # 1254															X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794															
Mayfield Laboratory - NATA # 1261 Site # 25079															
Perth Laboratory - NATA # 2377 Site # 2370															
External Laboratory															
10	BH509_3.5	Feb 18, 2022		Soil	S22-Fe49403							X	X		
11	BH509_5.0	Feb 18, 2022		Soil	S22-Fe49404							X	X		
12	BH509_6.5	Feb 18, 2022		Soil	S22-Fe49405							X	X		
13	BH509_7.5	Feb 18, 2022		Soil	S22-Fe49406							X	X		
14	BH510_1.0	Feb 18, 2022		Soil	S22-Fe49407							X	X		
15	BH510_2.5	Feb 18, 2022		Soil	S22-Fe49408							X	X		
16	BH510_4.0	Feb 18, 2022		Soil	S22-Fe49409							X	X		
17	BH510_5.5	Feb 18, 2022		Soil	S22-Fe49410							X	X		
18	BH510_7.0	Feb 18, 2022		Soil	S22-Fe49411							X	X		
19	BH510_8.0	Feb 18, 2022		Soil	S22-Fe49412							X	X		
20	BH511_0.5	Feb 18, 2022		Soil	S22-Fe49413							X	X		

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Project ID: 62236

Order No.:
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Phone: 02 8245 0300
Fax:

Received: Feb 21, 2022 4:30 PM
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Contact Name: Tom Frisken

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						HOLD	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	AUS Leaching Procedure	Metals M8	BTEX	Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Moisture Set	Eurofins Suite B7	BTEX	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA # 1261 Site # 1254															X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794															
Mayfield Laboratory - NATA # 1261 Site # 25079															
Perth Laboratory - NATA # 2377 Site # 2370															
External Laboratory															
21	BH511_2.0	Feb 18, 2022		Soil	S22-Fe49414							X	X		
22	BH511_3.5	Feb 18, 2022		Soil	S22-Fe49415							X	X		
23	BH511_5.0	Feb 18, 2022		Soil	S22-Fe49416							X	X		
24	BH511_6.5	Feb 18, 2022		Soil	S22-Fe49417							X	X		
25	BH511_8.0	Feb 18, 2022		Soil	S22-Fe49418							X	X		
26	BH512_0.5	Feb 18, 2022		Soil	S22-Fe49419							X	X		
27	BH512_2.0	Feb 18, 2022		Soil	S22-Fe49420							X	X		
28	BH512_2.5	Feb 18, 2022		Soil	S22-Fe49421							X	X		
29	BH512_3.5	Feb 18, 2022		Soil	S22-Fe49422							X	X		
30	BH512_4.5	Feb 18, 2022		Soil	S22-Fe49423							X	X		
31	BH512_5.5	Feb 18, 2022		Soil	S22-Fe49424							X	X		

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Order No.:
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Due: Mar 8, 2022
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Contact Name: Tom Frisken

Eurofins Analytical Services Manager : Ursula Long

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Melbourne Laboratory - NATA # 1261 Site # 1254															X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794															
Mayfield Laboratory - NATA # 1261 Site # 25079															
Perth Laboratory - NATA # 2377 Site # 2370															
External Laboratory															
32	QA20220218PG1	Feb 18, 2022		Soil	S22-Fe49425							X	X		
33	QA20220218PG3	Feb 18, 2022		Soil	S22-Fe49426							X	X		
34	BH508_0.5	Feb 18, 2022		AUS Leachate	S22-Fe49427		X	X	X		X				X
35	BH508_2.0	Feb 18, 2022		AUS Leachate	S22-Fe49428		X	X	X		X				X
36	BH508_3.5	Feb 18, 2022		AUS Leachate	S22-Fe49429		X	X	X		X				X
37	BH508_4.5	Feb 18, 2022		AUS Leachate	S22-Fe49430		X	X	X		X				X
38	BH508_6.0	Feb 18, 2022		AUS Leachate	S22-Fe49431		X	X	X		X				X
39	BH508_7.0	Feb 18, 2022		AUS Leachate	S22-Fe49432		X	X	X		X				X
40	BH509_0.5	Feb 18, 2022		AUS Leachate	S22-Fe49433		X	X	X		X				X

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Project ID: 62236

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Melbourne Laboratory - NATA # 1261 Site # 1254															X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794															
Mayfield Laboratory - NATA # 1261 Site # 25079															
Perth Laboratory - NATA # 2377 Site # 2370															
External Laboratory															
41	BH509_2.0	Feb 18, 2022		AUS Leachate	S22-Fe49434		X	X	X		X				X
42	BH5_09_2.5	Feb 18, 2022		AUS Leachate	S22-Fe49435		X	X	X		X				X
43	BH509_3.5	Feb 18, 2022		AUS Leachate	S22-Fe49436		X	X	X		X				X
44	BH509_5.0	Feb 18, 2022		AUS Leachate	S22-Fe49437		X	X	X		X				X
45	BH509_6.5	Feb 18, 2022		AUS Leachate	S22-Fe49438		X	X	X		X				X
46	BH509_7.5	Feb 18, 2022		AUS Leachate	S22-Fe49439		X	X	X		X				X
47	BH510_1.0	Feb 18, 2022		AUS Leachate	S22-Fe49440		X	X	X		X				X
48	BH510_2.5	Feb 18, 2022		AUS Leachate	S22-Fe49441		X	X	X		X				X
49	BH510_4.0	Feb 18, 2022		AUS Leachate	S22-Fe49442		X	X	X		X				X
50	BH510_5.5	Feb 18, 2022		AUS Leachate	S22-Fe49443		X	X	X		X				X
51	BH510_7.0	Feb 18, 2022		AUS Leachate	S22-Fe49444		X	X	X		X				X

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Melbourne Laboratory - NATA # 1261 Site # 1254															X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794															
Mayfield Laboratory - NATA # 1261 Site # 25079															
Perth Laboratory - NATA # 2377 Site # 2370															
External Laboratory															
52	BH510_8.0	Feb 18, 2022		AUS Leachate	S22-Fe49445		X	X	X		X				X
53	BH511_0.5	Feb 18, 2022		AUS Leachate	S22-Fe49446		X	X	X		X				X
54	BH511_2.0	Feb 18, 2022		AUS Leachate	S22-Fe49447		X	X	X		X				X
55	BH511_3.5	Feb 18, 2022		AUS Leachate	S22-Fe49448		X	X	X		X				X
56	BH511_5.0	Feb 18, 2022		AUS Leachate	S22-Fe49449		X	X	X		X				X
57	BH511_6.5	Feb 18, 2022		AUS Leachate	S22-Fe49450		X	X	X		X				X
58	BH511_8.0	Feb 18, 2022		AUS Leachate	S22-Fe49451		X	X	X		X				X
59	BH512_0.5	Feb 18, 2022		AUS Leachate	S22-Fe49452		X	X	X		X				X
60	BH512_2.0	Feb 18, 2022		AUS Leachate	S22-Fe49453		X	X	X		X				X
61	BH512_2.5	Feb 18, 2022		AUS Leachate	S22-Fe49454		X	X	X		X				X
62	BH512_3.5	Feb 18, 2022		AUS Leachate	S22-Fe49455		X	X	X		X				X

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Melbourne Laboratory - NATA # 1261 Site # 1254															X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794															
Mayfield Laboratory - NATA # 1261 Site # 25079															
Perth Laboratory - NATA # 2377 Site # 2370															
External Laboratory															
63	BH512_4.5	Feb 18, 2022		AUS Leachate	S22-Fe49456		X	X	X		X				X
64	BH512_5.5	Feb 18, 2022		AUS Leachate	S22-Fe49457		X	X	X		X				X
65	QA20220218PG1	Feb 18, 2022		AUS Leachate	S22-Fe49458		X	X	X		X				X
66	QA20220218PG3	Feb 18, 2022		AUS Leachate	S22-Fe49459		X	X	X		X				X
67	BH508_0.1	Feb 18, 2022		Soil	S22-Fe49460	X									
68	BH508_1.0	Feb 18, 2022		Soil	S22-Fe49461	X									
69	BH508_1.5	Feb 18, 2022		Soil	S22-Fe49462	X									
70	BH508_2.5	Feb 18, 2022		Soil	S22-Fe49463	X									
71	BH508_3.0	Feb 18, 2022		Soil	S22-Fe49464	X									

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Company Name: JBS & G Australia (NSW) P/L
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Project Name: GREEN SQUARE STAGES 3 AND 4 DSI
Project ID: 62236

Order No.:
Report #: 866070
Phone: 02 8245 0300
Fax:

Received: Feb 21, 2022 4:30 PM
Due: Mar 8, 2022
Priority: 5 Day
Contact Name: Tom Frisken

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						HOLD	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	AUS Leaching Procedure	Metals M8	BTEX	Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Moisture Set	Eurofins Suite B7	BTEX	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA # 1261 Site # 1254															X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794															
Mayfield Laboratory - NATA # 1261 Site # 25079															
Perth Laboratory - NATA # 2377 Site # 2370															
External Laboratory															
72	BH508_4.0	Feb 18, 2022		Soil	S22-Fe49465	X									
73	BH508_5.0	Feb 18, 2022		Soil	S22-Fe49466	X									
74	BH508_5.5	Feb 18, 2022		Soil	S22-Fe49467	X									
75	BH508_6.5	Feb 18, 2022		Soil	S22-Fe49468	X									
76	BH508_7.5	Feb 18, 2022		Soil	S22-Fe49469	X									
77	BH509_0.1	Feb 18, 2022		Soil	S22-Fe49470	X									
78	BH509_1.0	Feb 18, 2022		Soil	S22-Fe49471	X									
79	BH509_1.5	Feb 18, 2022		Soil	S22-Fe49472	X									
80	BH509_3.0	Feb 18, 2022		Soil	S22-Fe49473	X									
81	BH509_4.0	Feb 18, 2022		Soil	S22-Fe49474	X									
82	BH509_4.5	Feb 18, 2022		Soil	S22-Fe49475	X									

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Melbourne Laboratory - NATA # 1261 Site # 1254															X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794															
Mayfield Laboratory - NATA # 1261 Site # 25079															
Perth Laboratory - NATA # 2377 Site # 2370															
External Laboratory															
83	BH509_5.5	Feb 18, 2022		Soil	S22-Fe49476	X									
84	BH509_6.0	Feb 18, 2022		Soil	S22-Fe49477	X									
85	BH509_7.0	Feb 18, 2022		Soil	S22-Fe49478	X									
86	BH509_8.0	Feb 18, 2022		Soil	S22-Fe49479	X									
87	BH510_0.1	Feb 18, 2022		Soil	S22-Fe49480	X									
88	BH510_0.5	Feb 18, 2022		Soil	S22-Fe49481	X									
89	BH510_1.5	Feb 18, 2022		Soil	S22-Fe49482	X									
90	BH510_2.0	Feb 18, 2022		Soil	S22-Fe49483	X									
91	BH510_3.0	Feb 18, 2022		Soil	S22-Fe49484	X									
92	BH510_3.5	Feb 18, 2022		Soil	S22-Fe49485	X									
93	BH510_4.5	Feb 18, 2022		Soil	S22-Fe49486	X									

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Melbourne Laboratory - NATA # 1261 Site # 1254															X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794															
Mayfield Laboratory - NATA # 1261 Site # 25079															
Perth Laboratory - NATA # 2377 Site # 2370															
External Laboratory															
94	BH510_5.0	Feb 18, 2022		Soil	S22-Fe49487	X									
95	BH510_6.0	Feb 18, 2022		Soil	S22-Fe49488	X									
96	BH510_6.5	Feb 18, 2022		Soil	S22-Fe49489	X									
97	BH510_7.5	Feb 18, 2022		Soil	S22-Fe49490	X									
98	BH510_8.5	Feb 18, 2022		Soil	S22-Fe49491	X									
99	BH511_0.1	Feb 18, 2022		Soil	S22-Fe49492	X									
100	BH511_1.0	Feb 18, 2022		Soil	S22-Fe49493	X									
101	BH511_1.5	Feb 18, 2022		Soil	S22-Fe49494	X									
102	BH511_2.5	Feb 18, 2022		Soil	S22-Fe49495	X									
103	BH511_3.0	Feb 18, 2022		Soil	S22-Fe49496	X									
104	BH511_4.0	Feb 18, 2022		Soil	S22-Fe49497	X									

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Melbourne Laboratory - NATA # 1261 Site # 1254															X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794															
Mayfield Laboratory - NATA # 1261 Site # 25079															
Perth Laboratory - NATA # 2377 Site # 2370															
External Laboratory															
105	BH511_4.5	Feb 18, 2022		Soil	S22-Fe49498	X									
106	BH511_5.5	Feb 18, 2022		Soil	S22-Fe49499	X									
107	BH511_6.0	Feb 18, 2022		Soil	S22-Fe49500	X									
108	BH511_7.0	Feb 18, 2022		Soil	S22-Fe49501	X									
109	BH511_7.5	Feb 18, 2022		Soil	S22-Fe49502	X									
110	BH5_1_8.5	Feb 18, 2022		Soil	S22-Fe49503	X									
111	BH511_9.0	Feb 18, 2022		Soil	S22-Fe49504	X									
112	BH512_0.1	Feb 18, 2022		Soil	S22-Fe49505	X									
113	BH512_1.0	Feb 18, 2022		Soil	S22-Fe49506	X									
114	BH512_1.5	Feb 18, 2022		Soil	S22-Fe49507	X									
115	BH512_3.0	Feb 18, 2022		Soil	S22-Fe49508	X									

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Melbourne Laboratory - NATA # 1261 Site # 1254															X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794															
Mayfield Laboratory - NATA # 1261 Site # 25079															
Perth Laboratory - NATA # 2377 Site # 2370															
External Laboratory															
116	BH512_4.0	Feb 18, 2022		Soil	S22-Fe49509	X									
117	BH512_5.0	Feb 18, 2022		Soil	S22-Fe49510	X									
118	BH512_6.0	Feb 18, 2022		Soil	S22-Fe49511	X									
119	QA20220218PG2	Feb 18, 2022		Soil	S22-Fe49512	X									
120	QA20220218PG4	Feb 18, 2022		Soil	S22-Fe49513	X									
121	TRIP BLANK	Feb 18, 2022		Water	S22-Fe49514					X					
122	TRIP SPIKE	Feb 18, 2022		Water	S22-Fe49515									X	
123	BH530_0.1	Feb 18, 2022		Soil	S22-Fe49516	X									
124	BH530_0.5	Feb 18, 2022		Soil	S22-Fe49517	X									

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Melbourne Laboratory - NATA # 1261 Site # 1254															X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794															
Mayfield Laboratory - NATA # 1261 Site # 25079															
Perth Laboratory - NATA # 2377 Site # 2370															
External Laboratory															
125	BH530_1.0	Feb 18, 2022		Soil	S22-Fe49518	X									
126	BH530_1.5	Feb 18, 2022		Soil	S22-Fe49519	X									
127	BH530_2.0	Feb 18, 2022		Soil	S22-Fe49520	X									
128	BH530_2.5	Feb 18, 2022		Soil	S22-Fe49521	X									
129	BH530_3.0	Feb 18, 2022		Soil	S22-Fe49522	X									
130	BH530_3.5	Feb 18, 2022		Soil	S22-Fe49523	X									
131	BH530_4.0	Feb 18, 2022		Soil	S22-Fe49524	X									
132	BH530_4.5	Feb 18, 2022		Soil	S22-Fe49525	X									
133	BH530_5.0	Feb 18, 2022		Soil	S22-Fe49526	X									
134	BH530_5.5	Feb 18, 2022		Soil	S22-Fe49527	X									
135	BH530_6.0	Feb 18, 2022		Soil	S22-Fe49528	X									

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Melbourne Laboratory - NATA # 1261 Site # 1254															X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794															
Mayfield Laboratory - NATA # 1261 Site # 25079															
Perth Laboratory - NATA # 2377 Site # 2370															
External Laboratory															
136	BH530_6.5	Feb 18, 2022		Soil	S22-Fe49529	X									
137	BH530_7.0	Feb 18, 2022		Soil	S22-Fe49530	X									
138	BH530_7.5	Feb 18, 2022		Soil	S22-Fe49531	X									
139	BH530_8.0	Feb 18, 2022		Soil	S22-Fe49532	X									
140	BH530_8.5	Feb 18, 2022		Soil	S22-Fe49533	X									
141	BH530_9.0	Feb 18, 2022		Soil	S22-Fe49534	X									
142	BH530_9.5	Feb 18, 2022		Soil	S22-Fe49535	X									
143	BH530_10.0	Feb 18, 2022		Soil	S22-Fe49536	X									
144	BH530_10.5	Feb 18, 2022		Soil	S22-Fe49537	X									
145	BH530_11.0	Feb 18, 2022		Soil	S22-Fe49538	X									
146	BH508_0.1	Feb 18, 2022		AUS Leachate	S22-Fe49539	X									

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Melbourne Laboratory - NATA # 1261 Site # 1254															X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794															
Mayfield Laboratory - NATA # 1261 Site # 25079															
Perth Laboratory - NATA # 2377 Site # 2370															
External Laboratory															
147	BH508_1.0	Feb 18, 2022		AUS Leachate	S22-Fe49540	X									
148	BH508_1.5	Feb 18, 2022		AUS Leachate	S22-Fe49541	X									
149	BH508_2.5	Feb 18, 2022		AUS Leachate	S22-Fe49542	X									
150	BH508_3.0	Feb 18, 2022		AUS Leachate	S22-Fe49543	X									
151	BH508_4.0	Feb 18, 2022		AUS Leachate	S22-Fe49544	X									
152	BH508_5.0	Feb 18, 2022		AUS Leachate	S22-Fe49545	X									
153	BH508_5.5	Feb 18, 2022		AUS Leachate	S22-Fe49546	X									
154	BH508_6.5	Feb 18, 2022		AUS Leachate	S22-Fe49547	X									
155	BH508_7.5	Feb 18, 2022		AUS Leachate	S22-Fe49548	X									
156	BH509_0.1	Feb 18, 2022		AUS Leachate	S22-Fe49549	X									
157	BH509_1.0	Feb 18, 2022		AUS Leachate	S22-Fe49550	X									

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Project Name: GREEN SQUARE STAGES 3 AND 4 DSI
Project ID: 62236

Order No.:
Report #: 866070
Phone: 02 8245 0300
Fax:

Received: Feb 21, 2022 4:30 PM
Due: Mar 8, 2022
Priority: 5 Day
Contact Name: Tom Frisken

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						HOLD	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	AUS Leaching Procedure	Metals M8	BTEX	Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Moisture Set	Eurofins Suite B7	BTEX	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA # 1261 Site # 1254															X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794															
Mayfield Laboratory - NATA # 1261 Site # 25079															
Perth Laboratory - NATA # 2377 Site # 2370															
External Laboratory															
158	BH509_1.5	Feb 18, 2022		AUS Leachate	S22-Fe49551	X									
159	BH509_3.0	Feb 18, 2022		AUS Leachate	S22-Fe49552	X									
160	BH509_4.0	Feb 18, 2022		AUS Leachate	S22-Fe49553	X									
161	BH509_4.5	Feb 18, 2022		AUS Leachate	S22-Fe49554	X									
162	BH509_5.5	Feb 18, 2022		AUS Leachate	S22-Fe49555	X									
163	BH509_6.0	Feb 18, 2022		AUS Leachate	S22-Fe49556	X									
164	BH509_7.0	Feb 18, 2022		AUS Leachate	S22-Fe49557	X									
165	BH509_8.0	Feb 18, 2022		AUS Leachate	S22-Fe49558	X									
166	BH510_0.1	Feb 18, 2022		AUS Leachate	S22-Fe49559	X									
167	BH510_0.5	Feb 18, 2022		AUS Leachate	S22-Fe49560	X									
168	BH510_1.5	Feb 18, 2022		AUS Leachate	S22-Fe49561	X									

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Melbourne Laboratory - NATA # 1261 Site # 1254															X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794															
Mayfield Laboratory - NATA # 1261 Site # 25079															
Perth Laboratory - NATA # 2377 Site # 2370															
External Laboratory															
169	BH510_2.0	Feb 18, 2022		AUS Leachate	S22-Fe49562	X									
170	BH510_3.0	Feb 18, 2022		AUS Leachate	S22-Fe49563	X									
171	BH510_3.5	Feb 18, 2022		AUS Leachate	S22-Fe49564	X									
172	BH510_4.5	Feb 18, 2022		AUS Leachate	S22-Fe49565	X									
173	BH510_5.0	Feb 18, 2022		AUS Leachate	S22-Fe49566	X									
174	BH510_6.0	Feb 18, 2022		AUS Leachate	S22-Fe49567	X									
175	BH510_6.5	Feb 18, 2022		AUS Leachate	S22-Fe49568	X									
176	BH510_7.5	Feb 18, 2022		AUS Leachate	S22-Fe49569	X									
177	BH510_8.5	Feb 18, 2022		AUS Leachate	S22-Fe49570	X									
178	BH511_0.1	Feb 18, 2022		AUS Leachate	S22-Fe49571	X									
179	BH511_1.0	Feb 18, 2022		AUS Leachate	S22-Fe49572	X									

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Melbourne Laboratory - NATA # 1261 Site # 1254															X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794															
Mayfield Laboratory - NATA # 1261 Site # 25079															
Perth Laboratory - NATA # 2377 Site # 2370															
External Laboratory															
180	BH511_1.5	Feb 18, 2022		AUS Leachate	S22-Fe49573	X									
181	BH511_2.5	Feb 18, 2022		AUS Leachate	S22-Fe49574	X									
182	BH511_3.0	Feb 18, 2022		AUS Leachate	S22-Fe49575	X									
183	BH511_4.0	Feb 18, 2022		AUS Leachate	S22-Fe49576	X									
184	BH511_4.5	Feb 18, 2022		AUS Leachate	S22-Fe49577	X									
185	BH511_5.5	Feb 18, 2022		AUS Leachate	S22-Fe49578	X									
186	BH511_6.0	Feb 18, 2022		AUS Leachate	S22-Fe49579	X									
187	BH511_7.0	Feb 18, 2022		AUS Leachate	S22-Fe49580	X									
188	BH511_7.5	Feb 18, 2022		AUS Leachate	S22-Fe49581	X									
189	BH511_8.5	Feb 18, 2022		AUS Leachate	S22-Fe49582	X									
190	BH511_9.0	Feb 18, 2022		AUS Leachate	S22-Fe49583	X									

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Melbourne Laboratory - NATA # 1261 Site # 1254															X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794															
Mayfield Laboratory - NATA # 1261 Site # 25079															
Perth Laboratory - NATA # 2377 Site # 2370															
External Laboratory															
191	BH512_0.1	Feb 18, 2022		AUS Leachate	S22-Fe49584	X									
192	BH512_1.0	Feb 18, 2022		AUS Leachate	S22-Fe49585	X									
193	BH512_1.5	Feb 18, 2022		AUS Leachate	S22-Fe49586	X									
194	BH512_3.0	Feb 18, 2022		AUS Leachate	S22-Fe49587	X									
195	BH512_4.0	Feb 18, 2022		AUS Leachate	S22-Fe49588	X									
196	BH512_5.0	Feb 18, 2022		AUS Leachate	S22-Fe49589	X									
197	BH512_6.0	Feb 18, 2022		AUS Leachate	S22-Fe49590	X									
198	QA20220218__PG2	Feb 18, 2022		AUS Leachate	S22-Fe49591	X									
199	QA20220218__PG4	Feb 18, 2022		AUS Leachate	S22-Fe49592	X									

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Project ID: 62236

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Eurofins Analytical Services Manager : Ursula Long

Sample Detail						HOLD	Total Recoverable Hydrocarbons - 1999 NEPM Fractions	AUS Leaching Procedure	Metals M8	BTEX	Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Moisture Set	Eurofins Suite B7	BTEX	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA # 1261 Site # 1254															X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794															
Mayfield Laboratory - NATA # 1261 Site # 25079															
Perth Laboratory - NATA # 2377 Site # 2370															
External Laboratory															
200	BH530_0.1	Feb 18, 2022		AUS Leachate	S22-Fe49593	X									
201	BH530_0.5	Feb 18, 2022		AUS Leachate	S22-Fe49594	X									
202	BH530_1.0	Feb 18, 2022		AUS Leachate	S22-Fe49595	X									
203	BH530_1.5	Feb 18, 2022		AUS Leachate	S22-Fe49596	X									
204	BH530_2.0	Feb 18, 2022		AUS Leachate	S22-Fe49597	X									
205	BH530_2.5	Feb 18, 2022		AUS Leachate	S22-Fe49598	X									
206	BH530_3.0	Feb 18, 2022		AUS Leachate	S22-Fe49599	X									
207	BH530_3.5	Feb 18, 2022		AUS Leachate	S22-Fe49600	X									
208	BH530_4.0	Feb 18, 2022		AUS Leachate	S22-Fe49601	X									
209	BH530_4.5	Feb 18, 2022		AUS Leachate	S22-Fe49602	X									
210	BH530_5.0	Feb 18, 2022		AUS Leachate	S22-Fe49603	X									

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Melbourne Laboratory - NATA # 1261 Site # 1254															X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794															
Mayfield Laboratory - NATA # 1261 Site # 25079															
Perth Laboratory - NATA # 2377 Site # 2370															
External Laboratory															
211	BH530_5.5	Feb 18, 2022		AUS Leachate	S22-Fe49604	X									
212	BH530_6.0	Feb 18, 2022		AUS Leachate	S22-Fe49605	X									
213	BH530_6.5	Feb 18, 2022		AUS Leachate	S22-Fe49606	X									
214	BH530_7.0	Feb 18, 2022		AUS Leachate	S22-Fe49607	X									
215	BH530_7.5	Feb 18, 2022		AUS Leachate	S22-Fe49608	X									
216	BH530_8.0	Feb 18, 2022		AUS Leachate	S22-Fe49609	X									
217	BH530_8.5	Feb 18, 2022		AUS Leachate	S22-Fe49610	X									
218	BH530_9.0	Feb 18, 2022		AUS Leachate	S22-Fe49611	X									
219	BH530_9.5	Feb 18, 2022		AUS Leachate	S22-Fe49612	X									
220	BH530_10.0	Feb 18, 2022		AUS Leachate	S22-Fe49613	X									
221	BH530_10.5	Feb 18, 2022		AUS Leachate	S22-Fe49614	X									

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Melbourne Laboratory - NATA # 1261 Site # 1254															X
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA # 1261 Site # 20794															
Mayfield Laboratory - NATA # 1261 Site # 25079															
Perth Laboratory - NATA # 2377 Site # 2370															
External Laboratory															
222	BH530_11.0	Feb 18, 2022		AUS Leachate	S22-Fe49615	X									
Test Counts						154	33	33	33	1	33	33	33	1	33

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
µg/L: micrograms per litre
ppm: parts per million
ppb: parts per billion
%: Percentage
org/100 mL: Organisms per 100 millilitres
NTU: Nephelometric Turbidity Units
MPN/100 mL: Most Probable Number of organisms per 100 millilitres

Terms

APHA	American Public Health Association
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 5.4
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

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QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	111			70-130	Pass	
TRH C10-C14	%	107			70-130	Pass	
Naphthalene	%	90			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
TRH C6-C10	%	103			70-130	Pass	
TRH >C10-C16	%	105			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	109			70-130	Pass	
Toluene	%	104			70-130	Pass	
Ethylbenzene	%	90			70-130	Pass	
m&p-Xylenes	%	93			70-130	Pass	
o-Xylene	%	92			70-130	Pass	
Xylenes - Total*	%	93			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	103			70-130	Pass	
Acenaphthylene	%	104			70-130	Pass	
Anthracene	%	83			70-130	Pass	
Benz(a)anthracene	%	98			70-130	Pass	
Benzo(a)pyrene	%	101			70-130	Pass	
Benzo(b&j)fluoranthene	%	102			70-130	Pass	
Benzo(g.h.i)perylene	%	118			70-130	Pass	
Benzo(k)fluoranthene	%	92			70-130	Pass	
Chrysene	%	100			70-130	Pass	
Dibenz(a.h)anthracene	%	92			70-130	Pass	
Fluoranthene	%	93			70-130	Pass	
Fluorene	%	96			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	90			70-130	Pass	
Naphthalene	%	95			70-130	Pass	
Phenanthrene	%	86			70-130	Pass	
Pyrene	%	92			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	116			80-120	Pass	
Cadmium	%	111			80-120	Pass	
Chromium	%	108			80-120	Pass	
Copper	%	101			80-120	Pass	
Lead	%	108			80-120	Pass	
Mercury	%	94			80-120	Pass	
Nickel	%	102			80-120	Pass	
Zinc	%	102			80-120	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S22-Fe52829	NCP	%	106			70-130	Pass	
Acenaphthylene	S22-Fe52829	NCP	%	100			70-130	Pass	
Anthracene	S22-Fe52829	NCP	%	77			70-130	Pass	
Benz(a)anthracene	S22-Fe36674	NCP	%	58			70-130	Fail	Q08
Benzo(a)pyrene	S22-Fe36674	NCP	%	44			70-130	Fail	Q08
Benzo(b&j)fluoranthene	S22-Fe36674	NCP	%	50			70-130	Fail	Q08
Benzo(g.h.i)perylene	S22-Fe52829	NCP	%	72			70-130	Pass	
Benzo(k)fluoranthene	S22-Fe52829	NCP	%	86			70-130	Pass	
Chrysene	S22-Fe52829	NCP	%	89			70-130	Pass	
Dibenz(a.h)anthracene	S22-Fe52829	NCP	%	74			70-130	Pass	
Fluoranthene	S22-Fe36674	NCP	%	50			70-130	Fail	Q08
Fluorene	S22-Fe52829	NCP	%	95			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S22-Fe36674	NCP	%	31			70-130	Fail	Q08

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Naphthalene	S22-Fe52829	NCP	%	101			70-130	Pass	
Phenanthrene	S22-Fe36674	NCP	%	46			70-130	Fail	Q08
Pyrene	S22-Fe36674	NCP	%	53			70-130	Fail	Q08
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	S22-Fe49398	CP	%	77			70-130	Pass	
Naphthalene	S22-Fe49398	CP	%	104			70-130	Pass	
TRH C6-C10	S22-Fe49398	CP	%	75			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S22-Fe49398	CP	%	94			70-130	Pass	
Toluene	S22-Fe49398	CP	%	96			70-130	Pass	
Ethylbenzene	S22-Fe49398	CP	%	94			70-130	Pass	
m&p-Xylenes	S22-Fe49398	CP	%	97			70-130	Pass	
o-Xylene	S22-Fe49398	CP	%	99			70-130	Pass	
Xylenes - Total*	S22-Fe49398	CP	%	98			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S22-Fe49398	CP	%	105			75-125	Pass	
Cadmium	S22-Fe49398	CP	%	95			75-125	Pass	
Chromium	S22-Fe49398	CP	%	97			75-125	Pass	
Copper	S22-Fe49398	CP	%	93			75-125	Pass	
Lead	S22-Fe49398	CP	%	93			75-125	Pass	
Mercury	S22-Fe49398	CP	%	86			75-125	Pass	
Nickel	S22-Fe49398	CP	%	98			75-125	Pass	
Zinc	S22-Fe49398	CP	%	86			75-125	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C10-C14	S22-Fe49401	CP	%	92			70-130	Pass	
TRH >C10-C16	S22-Fe49401	CP	%	86			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	S22-Fe49418	CP	%	85			70-130	Pass	
Naphthalene	S22-Fe49418	CP	%	86			70-130	Pass	
TRH C6-C10	S22-Fe49418	CP	%	86			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S22-Fe49418	CP	%	97			70-130	Pass	
Toluene	S22-Fe49418	CP	%	89			70-130	Pass	
Ethylbenzene	S22-Fe49418	CP	%	94			70-130	Pass	
m&p-Xylenes	S22-Fe49418	CP	%	94			70-130	Pass	
o-Xylene	S22-Fe49418	CP	%	94			70-130	Pass	
Xylenes - Total*	S22-Fe49418	CP	%	94			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S22-Fe49419	CP	%	109			75-125	Pass	
Cadmium	S22-Fe49419	CP	%	108			75-125	Pass	
Chromium	S22-Fe49419	CP	%	102			75-125	Pass	
Copper	S22-Fe49419	CP	%	93			75-125	Pass	
Lead	S22-Fe49419	CP	%	109			75-125	Pass	
Mercury	S22-Fe49419	CP	%	109			75-125	Pass	
Nickel	S22-Fe49419	CP	%	98			75-125	Pass	
Zinc	S22-Fe49419	CP	%	102			75-125	Pass	
Spike - % Recovery									

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Total Recoverable Hydrocarbons				Result 1					
TRH C10-C14	S22-Fe49421	CP	%	79			70-130	Pass	
TRH >C10-C16	S22-Fe49421	CP	%	74			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S22-Fe52828	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S22-Fe52828	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S22-Fe52828	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S22-Fe52828	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S22-Fe52828	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S22-Fe52828	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S22-Fe52828	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S22-Fe52828	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S22-Fe52828	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S22-Fe52828	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S22-Fe52828	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S22-Fe52828	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S22-Fe52828	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S22-Fe52828	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S22-Fe52828	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S22-Fe52828	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S22-Fe49397	CP	mg/kg	6.6	5.0	27	30%	Pass	
Cadmium	S22-Fe49397	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S22-Fe49397	CP	mg/kg	14	10	31	30%	Fail	Q15
Copper	S22-Fe49397	CP	mg/kg	110	89	25	30%	Pass	
Lead	S22-Fe49397	CP	mg/kg	200	150	32	30%	Fail	Q15
Mercury	S22-Fe49397	CP	mg/kg	1.9	1.5	22	30%	Pass	
Nickel	S22-Fe49397	CP	mg/kg	17	14	23	30%	Pass	
Zinc	S22-Fe49397	CP	mg/kg	230	140	50	30%	Fail	Q15
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	S22-Fe49399	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Naphthalene	S22-Fe49399	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S22-Fe49399	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S22-Fe49399	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S22-Fe49399	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S22-Fe49399	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S22-Fe49399	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S22-Fe49399	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S22-Fe49399	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C10-C14	S22-Fe49400	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S22-Fe49400	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S22-Fe49400	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C10-C16	S22-Fe49400	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S22-Fe49400	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S22-Fe49400	CP	mg/kg	< 100	< 100	<1	30%	Pass	

Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S22-Fe49403	CP	%	8.9	12	27	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S22-Fe49408	CP	mg/kg	14	13	6.0	30%	Pass	
Cadmium	S22-Fe49408	CP	mg/kg	1.2	1.0	15	30%	Pass	
Chromium	S22-Fe49408	CP	mg/kg	25	28	11	30%	Pass	
Copper	S22-Fe49408	CP	mg/kg	160	150	5.0	30%	Pass	
Lead	S22-Fe49408	CP	mg/kg	400	370	8.0	30%	Pass	
Mercury	S22-Fe49408	CP	mg/kg	0.6	0.5	19	30%	Pass	
Nickel	S22-Fe49408	CP	mg/kg	25	22	12	30%	Pass	
Zinc	S22-Fe49408	CP	mg/kg	510	440	15	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C10-C14	S22-Fe49410	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S22-Fe49410	CP	mg/kg	260	210	19	30%	Pass	
TRH C29-C36	S22-Fe49410	CP	mg/kg	180	140	21	30%	Pass	
TRH >C10-C16	S22-Fe49410	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S22-Fe49410	CP	mg/kg	390	320	20	30%	Pass	
TRH >C34-C40	S22-Fe49410	CP	mg/kg	100	< 100	17	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S22-Fe49413	CP	%	8.0	7.2	11	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	S22-Fe49417	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Naphthalene	S22-Fe49417	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S22-Fe49417	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S22-Fe49417	CP	mg/kg	0.1	0.3	86	30%	Fail	Q02
Toluene	S22-Fe49417	CP	mg/kg	< 0.1	0.2	67	30%	Fail	Q02
Ethylbenzene	S22-Fe49417	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S22-Fe49417	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S22-Fe49417	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S22-Fe49417	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S22-Fe49417	CP	mg/kg	7.2	4.6	45	30%	Fail	Q15
Cadmium	S22-Fe49417	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S22-Fe49417	CP	mg/kg	19	12	43	30%	Fail	Q15
Copper	S22-Fe49417	CP	mg/kg	170	110	44	30%	Fail	Q15
Lead	S22-Fe49417	CP	mg/kg	560	400	35	30%	Fail	Q15
Mercury	S22-Fe49417	CP	mg/kg	0.9	0.6	42	30%	Fail	Q15
Nickel	S22-Fe49417	CP	mg/kg	17	11	37	30%	Fail	Q15
Zinc	S22-Fe49417	CP	mg/kg	360	240	42	30%	Fail	Q15
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S22-Fe49418	CP	mg/kg	5.1	15	99	30%	Fail	Q15
Cadmium	S22-Fe49418	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S22-Fe49418	CP	mg/kg	11	19	51	30%	Fail	Q15
Copper	S22-Fe49418	CP	mg/kg	96	130	31	30%	Fail	Q02
Lead	S22-Fe49418	CP	mg/kg	360	600	49	30%	Fail	Q02
Mercury	S22-Fe49418	CP	mg/kg	0.4	0.7	59	30%	Fail	Q15
Nickel	S22-Fe49418	CP	mg/kg	6.7	14	71	30%	Fail	Q15
Zinc	S22-Fe49418	CP	mg/kg	280	400	35	30%	Fail	Q02

Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	S22-Fe49419	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Naphthalene	S22-Fe49419	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S22-Fe49419	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S22-Fe49419	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S22-Fe49419	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S22-Fe49419	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S22-Fe49419	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S22-Fe49419	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S22-Fe49419	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C10-C14	S22-Fe49420	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S22-Fe49420	CP	mg/kg	64	54	17	30%	Pass	
TRH C29-C36	S22-Fe49420	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C10-C16	S22-Fe49420	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S22-Fe49420	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S22-Fe49420	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S22-Fe49423	CP	%	4.1	2.9	34	30%	Fail	Q15

Comments

This report has been revised (V2) to include repeat PAH results for Fe49458.

Eurofins | Environment Testing accreditation number 1261, site 18217 is currently in progress of a controlled transition to a new custom built location at 179 Magowar Road, Girraween, NSW 2145. All results on this report denoted as being performed by Eurofins | Environment Testing Unit F3, Building F, 16 Mars road, Lane Cove West, NSW 2066, corporate site 18217, will have been performed on either Lane Cove or new Girraween site

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q02	The duplicate %RPD is outside the recommended acceptance criteria. Further analysis indicates sample heterogeneity as the cause
Q08	The matrix spike recovery is outside of the recommended acceptance criteria. An acceptable recovery was obtained for the laboratory control sample indicating a sample matrix interference.
Q09	The Surrogate recovery is outside of the recommended acceptance criteria due to matrix interference. Acceptance criteria were met for all other QC
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised by:

Ursula Long	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)
Gabriele Cordero	Senior Analyst-Metal (NSW)
Roopesh Rangarajan	Senior Analyst-Volatile (NSW)

Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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Chain of Custody

JBS&G

PROJECT NO.: 62236
PROJECT NAME: Green Gauge Stage 3 & 4 AQ
DATE NEEDED BY: STANDARD
LABORATORY BATCH NO.:
SAMPLERS: LC, AH, SK, AS, MD
QC LEVEL: NEPM (2013)
PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) ...CDAGGER.....@jbsg.com.au; (3) .....AJSMITH.....@jbsg.com.au LCHU@JBSG.COM.AU ; AHOLLAND@JBSG.COM.AU
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	ASBESTOS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
AQ007_1	SOIL	15/03/23		BAG.		X		X	
-2						X		X	
3						X		X	
4						X		X	
5						X		X	
6						X		X	
7						X		X	
8						X		X	
9						X		X	
10						X		X	
11						X		X	
12						X		X	
13						X		X	
14						X		X	
QC02						X		X	

RELINQUISHED BY:
NAME: L-CHU DATE: 15/03/23
OF: JBS&G
NAME: DATE:
OF:

METHOD OF SHIPMENT:
CONSIGNMENT NOTE NO.
TRANSPORT CO.
CONSIGNMENT NOTE NO.
TRANSPORT CO

RECEIVED BY:
NAME: DATE: 15/3/23 5:20
OF:
NAME: DATE:
OF:

FOR RECEIVING LAB USE ONLY:
COOLER SEAL – Yes...., No ..... Intact ..... Broken .....
COOLER TEMP 29.0 deg C
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid **Prsvd Vial; VS = Sulfuric Acid** Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

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#972947

Chain of Custody

JBS&G

PROJECT NO.: 62236
PROJECT NAME: Green Square Stage 3 & 4 AQ
DATE NEEDED BY: STANDARD

LABORATORY BATCH NO.:
SAMPLERS: LC, AH, SK, AS, MD
QC LEVEL: NEPM (2013)

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) C.DAGGER.....@jbsg.com.au; (3) AJSMITH.....@jbsg.com.au LCHU@JBSG.COM.AU; AHOLLAND@JBSG.COM

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
AQ002_1	SOIL	15/03/23	-	BAG			X	
-2							X	
-3							X	
4							X	
5							X	
6							X	
7							X	
8							X	
9							X	
10							X	
11							X	
12							X	
13							X	
14							X	
QC04	↓	↓		↓			X	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: L. CHU DATE: 15/03/23 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C
NAME: DATE: OF:	CONSIGNMENT NOTE NO. TRANSPORT CO	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

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Chain of Custody

JBS&G

PROJECT NO.: 62236
PROJECT NAME: Green Square Stage 3+4 AQ
DATE NEEDED BY: Standard
PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) cdagger@jbsg.com.au; (3) a.j.smith@jbsg.com.au aholland@jbsg.com.au, lchu@jbsg.com.au

LABORATORY BATCH NO.:
SAMPLERS: Laymond Chu, Amy Holland, Sam Knott, ~~[illegible]~~ M[illegible] Aaron Smi[illegible]
QC LEVEL: NEPM (2013)

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
AQ003_1	Soil	15/3/23		bag		X		X	
_2						X		X	
_3						X		X	
_4						X		X	
_5						X		X	
_6						X		X	
_7						X		X	
_8						X		X	
_9						X		X	
_10						X		X	
_11						X		X	
_12						X		X	
_13						X		X	
_14						X		X	
AC03									

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Amy Holland DATE: 15/3/23	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE:	
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd **Vial;** VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

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Chain of Custody

JBS&G

PROJECT NO.: 62236
PROJECT NAME: Green Square Stage 3 + 4 AQ
DATE NEEDED BY: Standard
LABORATORY BATCH NO.:
SAMPLERS: LC, AH, SK, AS, MD
QC LEVEL: NEPM (2013)
PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) c.dagger@jbsg.com.au; (3) ajsmith@jbsg.com.au aholland@jbsg.com.au kpag LCnu@jbsg.com.au
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
AQ006 – 1	Soil	15/3/23		bag		X		X	
– 2						X		X	
– 3						X		X	
– 4						X		X	
– 5						X		X	
– 6						X		X	
– 7						X		X	
– 8						X		X	
– 9						X		X	
– 10						X		X	
– 11						X		X	
– 12						X		X	
– 13						X		X	
– 14						X		X	
QC03						X		X	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Amy Holland DATE: 15/3/23	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE:	
NAME: DATE:	CONSIGNMENT NOTE NO.	OF:	COOLER TEMP ..... deg C
OF:	TRANSPORT CO	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
		OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

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IANZ# 1290

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Christopher Dagger
Project name:	GREEN SQUARE STAGE 3 &4 AQ
Project ID:	62236
Turnaround time:	5 Day
Date/Time received	Mar 15, 2023 5:20 PM
Eurofins reference	972947

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	Sample Temperature of chilled sample on the batch as recorded by Eurofins Sample Receipt : 21 degrees Celsius.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
✗	Split sample sent to requested external lab.
✗	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Andrew Black on phone : (+61) 2 9900 8490 or by email: AndrewBlack@eurofins.com

Results will be delivered electronically via email to Christopher Dagger - cdagger@jbsg.com.au.

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

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ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
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Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West NSW 2304
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	Tel: +61 2 4968 8448
Tel: +61 3 8564 5000	Tel: +61 3 8564 5000	Tel: +61 2 9900 8400	Tel: +61 2 6113 8091	Tel: +61 7 3902 4600	NATA# 1261
NATA# 1261 Site# 1254	NATA# 1261 Site# 25403	NATA# 1261 Site# 18217	NATA# 1261 Site# 25466	NATA# 1261 Site# 20794	Site# 25079 & 25289

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NATA# 2377 Site# 2370

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NZBN: 9429046024954

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Penrose,	Rolleston,
Auckland 1061	Christchurch 7675
Tel: +64 9 526 45 51	Tel: 0800 856 450
IANZ# 1327	IANZ# 1290

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: GREEN SQUARE STAGE 3 &4 AQ
Project ID: 62236

Order No.:
Report #: 972947
Phone: 02 8245 0300
Fax:

Received: Mar 15, 2023 5:20 PM
Due: Mar 22, 2023
Priority: 5 Day
Contact Name: Christopher Dagger

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	HOLD
Sydney Laboratory - NATA # 1261 Site # 18217						X	X
External Laboratory							
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**		
1	AQ007-1	Mar 15, 2023		Soil	S23-Ma0042121	X	
2	AQ007-2	Mar 15, 2023		Soil	S23-Ma0042122	X	
3	AQ007-3	Mar 15, 2023		Soil	S23-Ma0042123	X	
4	AQ007-4	Mar 15, 2023		Soil	S23-Ma0042124	X	
5	AQ007-5	Mar 15, 2023		Soil	S23-Ma0042125	X	
6	AQ007-6	Mar 15, 2023		Soil	S23-Ma0042126	X	
7	AQ007-7	Mar 15, 2023		Soil	S23-Ma0042127	X	
8	AQ007-8	Mar 15, 2023		Soil	S23-Ma0042128	X	
9	AQ007-9	Mar 15, 2023		Soil	S23-Ma0042129	X	
10	AQ007-10	Mar 15, 2023		Soil	S23-Ma0042130	X	
11	AQ007-11	Mar 15, 2023		Soil	S23-Ma0042131	X	
12	AQ007-12	Mar 15, 2023		Soil	S23-Ma0042132	X	
13	AQ007-13	Mar 15, 2023		Soil	S23-Ma0042133	X	

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NATA# 1261
Site# 25079 & 25289

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Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: GREEN SQUARE STAGE 3 &4 AQ
Project ID: 62236

Order No.:
Report #: 972947
Phone: 02 8245 0300
Fax:

Received: Mar 15, 2023 5:20 PM
Due: Mar 22, 2023
Priority: 5 Day
Contact Name: Christopher Dagger

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	HOLD
Sydney Laboratory - NATA # 1261 Site # 18217						X	X
14	AQ007-14	Mar 15, 2023		Soil	S23-Ma0042134	X	
15	QC02	Mar 15, 2023		Soil	S23-Ma0042135	X	
16	AQ003-1	Mar 15, 2023		Soil	S23-Ma0042136	X	
17	AQ003-2	Mar 15, 2023		Soil	S23-Ma0042137	X	
18	AQ003-3	Mar 15, 2023		Soil	S23-Ma0042138	X	
19	AQ003-4	Mar 15, 2023		Soil	S23-Ma0042139	X	
20	AQ003-5	Mar 15, 2023		Soil	S23-Ma0042140	X	
21	AQ003-6	Mar 15, 2023		Soil	S23-Ma0042141	X	
22	AQ003-7	Mar 15, 2023		Soil	S23-Ma0042142	X	
23	AQ003-8	Mar 15, 2023		Soil	S23-Ma0042143	X	
24	AQ003-9	Mar 15, 2023		Soil	S23-Ma0042144	X	
25	AQ003-10	Mar 15, 2023		Soil	S23-Ma0042145	X	
26	AQ003-11	Mar 15, 2023		Soil	S23-Ma0042146	X	
27	AQ003-12	Mar 15, 2023		Soil	S23-Ma0042147	X	
28	AQ003-13	Mar 15, 2023		Soil	S23-Ma0042148	X	
29	AQ003-14	Mar 15, 2023		Soil	S23-Ma0042149	X	

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NATA# 1261 Site# 18217

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NATA# 1261 Site# 25466

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1/21 Smallwood Place
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NATA# 1261 Site# 20794

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NATA# 1261
Site# 25079 & 25289

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: GREEN SQUARE STAGE 3 &4 AQ
Project ID: 62236

Order No.:
Report #: 972947
Phone: 02 8245 0300
Fax:

Received: Mar 15, 2023 5:20 PM
Due: Mar 22, 2023
Priority: 5 Day
Contact Name: Christopher Dagger

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	HOLD
Sydney Laboratory - NATA # 1261 Site # 18217						X	X
30	QC03	Mar 15, 2023		Soil	S23-Ma0042150	X	
31	AQ006-1	Mar 15, 2023		Soil	S23-Ma0042151	X	
32	AQ006-2	Mar 15, 2023		Soil	S23-Ma0042152	X	
33	AQ006-3	Mar 15, 2023		Soil	S23-Ma0042153	X	
34	AQ006-4	Mar 15, 2023		Soil	S23-Ma0042154	X	
35	AQ006-5	Mar 15, 2023		Soil	S23-Ma0042155	X	
36	AQ006-6	Mar 15, 2023		Soil	S23-Ma0042156	X	
37	AQ006-7	Mar 15, 2023		Soil	S23-Ma0042157	X	
38	AQ006-8	Mar 15, 2023		Soil	S23-Ma0042158	X	
39	AQ006-9	Mar 15, 2023		Soil	S23-Ma0042159	X	
40	AQ006-10	Mar 15, 2023		Soil	S23-Ma0042160	X	
41	AQ006-11	Mar 15, 2023		Soil	S23-Ma0042161	X	
42	AQ006-12	Mar 15, 2023		Soil	S23-Ma0042162	X	
43	AQ006-13	Mar 15, 2023		Soil	S23-Ma0042163	X	
44	AQ006-14	Mar 15, 2023		Soil	S23-Ma0042164	X	
45	QC01	Mar 15, 2023		Soil	S23-Ma0042165	X	

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: GREEN SQUARE STAGE 3 &4 AQ
Project ID: 62236

Order No.:
Report #: 972947
Phone: 02 8245 0300
Fax:

Received: Mar 15, 2023 5:20 PM
Due: Mar 22, 2023
Priority: 5 Day
Contact Name: Christopher Dagger

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	HOLD
Sydney Laboratory - NATA # 1261 Site # 18217						X	X
46	AQ002-1	Mar 15, 2023		Soil	S23-Ma0042166	X	
47	AQ002-2	Mar 15, 2023		Soil	S23-Ma0042167	X	
48	AQ002-3	Mar 15, 2023		Soil	S23-Ma0042168	X	
49	AQ002-4	Mar 15, 2023		Soil	S23-Ma0042169	X	
50	AQ002-5	Mar 15, 2023		Soil	S23-Ma0042170	X	
51	AQ002-6	Mar 15, 2023		Soil	S23-Ma0042171	X	
52	AQ002-7	Mar 15, 2023		Soil	S23-Ma0042172	X	
53	AQ002-8	Mar 15, 2023		Soil	S23-Ma0042173		X
54	AQ002-9	Mar 15, 2023		Soil	S23-Ma0042174	X	
55	AQ002-10	Mar 15, 2023		Soil	S23-Ma0042175	X	
56	AQ002-11	Mar 15, 2023		Soil	S23-Ma0042176	X	
57	AQ002-12	Mar 15, 2023		Soil	S23-Ma0042177	X	
58	AQ002-13	Mar 15, 2023		Soil	S23-Ma0042178	X	
59	AQ002-14	Mar 15, 2023		Soil	S23-Ma0042179	X	
60	QC04	Mar 15, 2023		Soil	S23-Ma0042180	X	
Test Counts						59	1

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NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025–Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention:	Christopher Dagger
Report	972947-AID
Project Name	GREEN SQUARE STAGE 3 &4 AQ
Project ID	62236
Received Date	Mar 15, 2023
Date Reported	Mar 28, 2023

Methodology:

Asbestos Fibre Identification	Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques. *NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.*
Unknown Mineral Fibres	Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity. *NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.*
Subsampling Soil Samples	The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed. *NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.*
Bonded asbestos-containing material (ACM)	The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination.The resultant material is then further examined in accordance with AS 4964 - 2004. *NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.*
Limit of Reporting	The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w). The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk). *NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos".This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.*

Project Name GREEN SQUARE STAGE 3 &4 AQ
Project ID 62236
Date Sampled Mar 15, 2023
Report 972947-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
AQ007-1	23-Ma0042121	Mar 15, 2023	Approximate Sample 756g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ007-2	23-Ma0042122	Mar 15, 2023	Approximate Sample 692g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ007-3	23-Ma0042123	Mar 15, 2023	Approximate Sample 624g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ007-4	23-Ma0042124	Mar 15, 2023	Approximate Sample 827g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ007-5	23-Ma0042125	Mar 15, 2023	Approximate Sample 642g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ007-6	23-Ma0042126	Mar 15, 2023	Approximate Sample 684g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ007-7	23-Ma0042127	Mar 15, 2023	Approximate Sample 616g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ007-8	23-Ma0042128	Mar 15, 2023	Approximate Sample 548g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
AQ007-9	23-Ma0042129	Mar 15, 2023	Approximate Sample 664g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ007-10	23-Ma0042130	Mar 15, 2023	Approximate Sample 647g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ007-11	23-Ma0042131	Mar 15, 2023	Approximate Sample 692g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ007-12	23-Ma0042132	Mar 15, 2023	Approximate Sample 635g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ007-13	23-Ma0042133	Mar 15, 2023	Approximate Sample 846g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ007-14	23-Ma0042134	Mar 15, 2023	Approximate Sample 744g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
QC02	23-Ma0042135	Mar 15, 2023	Approximate Sample 665g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ003-1	23-Ma0042136	Mar 15, 2023	Approximate Sample 763g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ003-2	23-Ma0042137	Mar 15, 2023	Approximate Sample 688g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	AF: Crocidolite asbestos detected in the form of loose fibre bundles. Approximate raw weight of AF = 0.00020g* Estimated asbestos content in AF = 0.00019g* Total estimated asbestos concentration in AF = 0.000028% w/w* No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ003-3	23-Ma0042138	Mar 15, 2023	Approximate Sample 776g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ003-4	23-Ma0042139	Mar 15, 2023	Approximate Sample 724g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
AQ003-5	23-Ma0042140	Mar 15, 2023	Approximate Sample 797g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ003-6	23-Ma0042141	Mar 15, 2023	Approximate Sample 912g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ003-7	23-Ma0042142	Mar 15, 2023	Approximate Sample 978g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ003-8	23-Ma0042143	Mar 15, 2023	Approximate Sample 901g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ003-9	23-Ma0042144	Mar 15, 2023	Approximate Sample 768g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ003-10	23-Ma0042145	Mar 15, 2023	Approximate Sample 790g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ003-11	23-Ma0042146	Mar 15, 2023	Approximate Sample 515g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ003-12	23-Ma0042147	Mar 15, 2023	Approximate Sample 1021g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ003-13	23-Ma0042148	Mar 15, 2023	Approximate Sample 819g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ003-14	23-Ma0042149	Mar 15, 2023	Approximate Sample 829g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
QC03	23-Ma0042150	Mar 15, 2023	Approximate Sample 728g Sample consisted of: Brown fine-grained sandy soil, bitumen and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ006-1	23-Ma0042151	Mar 15, 2023	Approximate Sample 657g Sample consisted of: Brown fine-grained sandy soil, cement, bitumen, glass fragments and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ006-2	23-Ma0042152	Mar 15, 2023	Approximate Sample 589g Sample consisted of: Brown fine-grained sandy soil, cement, bitumen, glass fragments and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
AQ006-3	23-Ma0042153	Mar 15, 2023	Approximate Sample 698g Sample consisted of: Brown fine-grained sandy soil, bitumen and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ006-4	23-Ma0042154	Mar 15, 2023	Approximate Sample 728g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ006-5	23-Ma0042155	Mar 15, 2023	Approximate Sample 896g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	FA: Chrysotile asbestos detected in weathered plaster fibrous material. Approximate raw weight of FA = 0.0072g Estimated asbestos content in FA = 0.0014g* Total estimated asbestos concentration in FA = 0.00016% w/w* No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ006-6	23-Ma0042156	Mar 15, 2023	Approximate Sample 910g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ006-7	23-Ma0042157	Mar 15, 2023	Approximate Sample 848g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ006-8	23-Ma0042158	Mar 15, 2023	Approximate Sample 920g Sample consisted of: Brown coarse-grained clayey sandy soil, glass fragments and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ006-9	23-Ma0042159	Mar 15, 2023	Approximate Sample 884g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ006-10	23-Ma0042160	Mar 15, 2023	Approximate Sample 916g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ006-11	23-Ma0042161	Mar 15, 2023	Approximate Sample 736g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ006-12	23-Ma0042162	Mar 15, 2023	Approximate Sample 761g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ006-13	23-Ma0042163	Mar 15, 2023	Approximate Sample 920g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
AQ006-14	23-Ma0042164	Mar 15, 2023	Approximate Sample 777g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
QC01	23-Ma0042165	Mar 15, 2023	Approximate Sample 570g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ002-1	23-Ma0042166	Mar 15, 2023	Approximate Sample 589g Sample consisted of: Brown coarse-grained sandy soil, glass, bitumen, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ002-2	23-Ma0042167	Mar 15, 2023	Approximate Sample 865g Sample consisted of: Brown coarse-grained sandy soil, cement, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ002-3	23-Ma0042168	Mar 15, 2023	Approximate Sample 794g Sample consisted of: Brown coarse-grained sandy soil, glass and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ002-4	23-Ma0042169	Mar 15, 2023	Approximate Sample 640g Sample consisted of: Brown coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ002-5	23-Ma0042170	Mar 15, 2023	Approximate Sample 632g Sample consisted of: Brown coarse-grained sandy soil, bitumen and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ002-6	23-Ma0042171	Mar 15, 2023	Approximate Sample 837g Sample consisted of: Brown coarse-grained sandy clayey soil, plastic and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ002-7	23-Ma0042172	Mar 15, 2023	Approximate Sample 959g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ002-9	23-Ma0042174	Mar 15, 2023	Approximate Sample 673g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ002-10	23-Ma0042175	Mar 15, 2023	Approximate Sample 632g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ002-11	23-Ma0042176	Mar 15, 2023	Approximate Sample 714g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ002-12	23-Ma0042177	Mar 15, 2023	Approximate Sample 694g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
AQ002-13	23-Ma0042178	Mar 15, 2023	Approximate Sample 679g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ002-14	23-Ma0042179	Mar 15, 2023	Approximate Sample 713g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
QC04	23-Ma0042180	Mar 15, 2023	Approximate Sample 944g Sample consisted of: Brown fine-grained clayey soil, bitumen and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	Mar 22, 2023	Indefinite

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NATA# 1261 Site# 1254	NATA# 1261 Site# 25403	NATA# 1261 Site# 18217	NATA# 1261 Site# 25466	NATA# 1261 Site# 20794	Site# 25079 & 25289

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Project Name: GREEN SQUARE STAGE 3 &4 AQ
Project ID: 62236

Order No.:
Report #: 972947
Phone: 02 8245 0300
Fax:

Received: Mar 15, 2023 5:20 PM
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Priority: 5 Day
Contact Name: Christopher Dagger

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	HOLD
Sydney Laboratory - NATA # 1261 Site # 18217						X	X
External Laboratory							
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**		
1	AQ007-1	Mar 15, 2023		Soil	S23-Ma0042121	X	
2	AQ007-2	Mar 15, 2023		Soil	S23-Ma0042122	X	
3	AQ007-3	Mar 15, 2023		Soil	S23-Ma0042123	X	
4	AQ007-4	Mar 15, 2023		Soil	S23-Ma0042124	X	
5	AQ007-5	Mar 15, 2023		Soil	S23-Ma0042125	X	
6	AQ007-6	Mar 15, 2023		Soil	S23-Ma0042126	X	
7	AQ007-7	Mar 15, 2023		Soil	S23-Ma0042127	X	
8	AQ007-8	Mar 15, 2023		Soil	S23-Ma0042128	X	
9	AQ007-9	Mar 15, 2023		Soil	S23-Ma0042129	X	
10	AQ007-10	Mar 15, 2023		Soil	S23-Ma0042130	X	
11	AQ007-11	Mar 15, 2023		Soil	S23-Ma0042131	X	
12	AQ007-12	Mar 15, 2023		Soil	S23-Ma0042132	X	
13	AQ007-13	Mar 15, 2023		Soil	S23-Ma0042133	X	

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Priority: 5 Day
Contact Name: Christopher Dagger

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	HOLD
Sydney Laboratory - NATA # 1261 Site # 18217						X	X
14	AQ007-14	Mar 15, 2023		Soil	S23-Ma0042134	X	
15	QC02	Mar 15, 2023		Soil	S23-Ma0042135	X	
16	AQ003-1	Mar 15, 2023		Soil	S23-Ma0042136	X	
17	AQ003-2	Mar 15, 2023		Soil	S23-Ma0042137	X	
18	AQ003-3	Mar 15, 2023		Soil	S23-Ma0042138	X	
19	AQ003-4	Mar 15, 2023		Soil	S23-Ma0042139	X	
20	AQ003-5	Mar 15, 2023		Soil	S23-Ma0042140	X	
21	AQ003-6	Mar 15, 2023		Soil	S23-Ma0042141	X	
22	AQ003-7	Mar 15, 2023		Soil	S23-Ma0042142	X	
23	AQ003-8	Mar 15, 2023		Soil	S23-Ma0042143	X	
24	AQ003-9	Mar 15, 2023		Soil	S23-Ma0042144	X	
25	AQ003-10	Mar 15, 2023		Soil	S23-Ma0042145	X	
26	AQ003-11	Mar 15, 2023		Soil	S23-Ma0042146	X	
27	AQ003-12	Mar 15, 2023		Soil	S23-Ma0042147	X	
28	AQ003-13	Mar 15, 2023		Soil	S23-Ma0042148	X	
29	AQ003-14	Mar 15, 2023		Soil	S23-Ma0042149	X	

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: GREEN SQUARE STAGE 3 &4 AQ
Project ID: 62236

Order No.:
Report #: 972947
Phone: 02 8245 0300
Fax:

Received: Mar 15, 2023 5:20 PM
Due: Mar 22, 2023
Priority: 5 Day
Contact Name: Christopher Dagger

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	HOLD
Sydney Laboratory - NATA # 1261 Site # 18217						X	X
30	QC03	Mar 15, 2023		Soil	S23-Ma0042150	X	
31	AQ006-1	Mar 15, 2023		Soil	S23-Ma0042151	X	
32	AQ006-2	Mar 15, 2023		Soil	S23-Ma0042152	X	
33	AQ006-3	Mar 15, 2023		Soil	S23-Ma0042153	X	
34	AQ006-4	Mar 15, 2023		Soil	S23-Ma0042154	X	
35	AQ006-5	Mar 15, 2023		Soil	S23-Ma0042155	X	
36	AQ006-6	Mar 15, 2023		Soil	S23-Ma0042156	X	
37	AQ006-7	Mar 15, 2023		Soil	S23-Ma0042157	X	
38	AQ006-8	Mar 15, 2023		Soil	S23-Ma0042158	X	
39	AQ006-9	Mar 15, 2023		Soil	S23-Ma0042159	X	
40	AQ006-10	Mar 15, 2023		Soil	S23-Ma0042160	X	
41	AQ006-11	Mar 15, 2023		Soil	S23-Ma0042161	X	
42	AQ006-12	Mar 15, 2023		Soil	S23-Ma0042162	X	
43	AQ006-13	Mar 15, 2023		Soil	S23-Ma0042163	X	
44	AQ006-14	Mar 15, 2023		Soil	S23-Ma0042164	X	
45	QC01	Mar 15, 2023		Soil	S23-Ma0042165	X	

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Priority: 5 Day
Contact Name: Christopher Dagger

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	HOLD
Sydney Laboratory - NATA # 1261 Site # 18217						X	X
46	AQ002-1	Mar 15, 2023		Soil	S23-Ma0042166	X	
47	AQ002-2	Mar 15, 2023		Soil	S23-Ma0042167	X	
48	AQ002-3	Mar 15, 2023		Soil	S23-Ma0042168	X	
49	AQ002-4	Mar 15, 2023		Soil	S23-Ma0042169	X	
50	AQ002-5	Mar 15, 2023		Soil	S23-Ma0042170	X	
51	AQ002-6	Mar 15, 2023		Soil	S23-Ma0042171	X	
52	AQ002-7	Mar 15, 2023		Soil	S23-Ma0042172	X	
53	AQ002-8	Mar 15, 2023		Soil	S23-Ma0042173		X
54	AQ002-9	Mar 15, 2023		Soil	S23-Ma0042174	X	
55	AQ002-10	Mar 15, 2023		Soil	S23-Ma0042175	X	
56	AQ002-11	Mar 15, 2023		Soil	S23-Ma0042176	X	
57	AQ002-12	Mar 15, 2023		Soil	S23-Ma0042177	X	
58	AQ002-13	Mar 15, 2023		Soil	S23-Ma0042178	X	
59	AQ002-14	Mar 15, 2023		Soil	S23-Ma0042179	X	
60	QC04	Mar 15, 2023		Soil	S23-Ma0042180	X	
Test Counts						59	1

Internal Quality Control Review and Glossary General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with the colour **blue** indicates data provided by customer that may have an impact on the results.
5. This report replaces any interim results previously issued.

Holding Times

Please refer to the most recent version of the 'Sample Preservation and Container Guide' for holding times (QS3001).
If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

% w/w:	Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples (**% w/w**)
F/fld	Airborne fibre filter loading as Fibres (**N**) per Fields counted (**n**)
F/mL	Airborne fibre reported concentration as Fibres per millilitre of air drawn over the sampler membrane (**C**)
g, kg	Mass, e.g. of whole sample (**M**) or asbestos-containing find within the sample (**m**)
g/kg	Concentration in grams per kilogram
L, mL	Volume, e.g. of air as measured in AFM (**V** = **r** x **t**)
L/min	Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (**r**)
min	Time (**t**), e.g. of air sample collection period

Calculations

Airborne Fibre Concentration: $C = \left(\frac{A}{a}\right) \times \left(\frac{N}{n}\right) \times \left(\frac{1}{r}\right) \times \left(\frac{1}{t}\right) = K \times \left(\frac{N}{n}\right) \times \left(\frac{1}{V}\right)$

Asbestos Content (as asbestos): $\%\, w/w = \frac{(m \times P_A)}{M}$

Weighted Average (of asbestos): $\%_{WA} = \sum \frac{(m \times P_A)_x}{x}$

Terms

%asbestos	Estimated percentage of asbestos in a given matrix. May be derived from knowledge or experience of the material, informed by HSG264 *Appendix 2*, else assumed to be 15% in accordance with WA DOH *Appendix 2* (**P_A**).
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded (non-friable) condition. For the purposes of the NEPM and WA DOH, ACM corresponds to material larger than 7 mm x 7 mm.
AF	Asbestos Fines. Asbestos contamination within a soil sample, as defined by WA DOH. Includes loose fibre bundles and small pieces of friable and non-friable material such as asbestos cement fragments mixed with soil. Considered under the NEPM as equivalent to “non-bonded / friable”.
AFM	Airborne Fibre Monitoring, e.g. by the MFM.
Amosite	Amosite Asbestos Detected. Amosite may also refer to Fibrous Grunerite or Brown Asbestos. Identified in accordance with AS 4964-2004.
AS	Australian Standard.
Asbestos Content (as asbestos)	Total % w/w asbestos content in asbestos-containing finds in a soil sample (**% w/w)**.
Chrysotile	Chrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in accordance with AS 4964-2004.
COC	Chain of Custody.
Crocidolite	Crocidolite Asbestos Detected. Crocidolite may also refer to Fibrous Riebeckite or Blue Asbestos. Identified in accordance with AS 4964-2004.
Dry	Sample is dried by heating prior to analysis.
DS	Dispersion Staining. Technique required for Unequivocal Identification of asbestos fibres by PLM.
FA	Fibrous Asbestos. Asbestos containing material that is wholly or in part friable, including materials with higher asbestos content with a propensity to become friable with handling, and any material that was previously non-friable and in a severely degraded condition. For the purposes of the NEPM and WA DOH, FA generally corresponds to material larger than 7 mm x 7 mm, although FA may be more difficult to visibly distinguish and may be assessed as AF.
Fibre Count	Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003
Fibre ID	Fibre Identification. Unequivocal identification of asbestos fibres according to AS 4964-2004. Includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos.
Friable	Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory’s remit to assess degree of friability.
HSG248	UK HSE HSG248, *Asbestos: The Analysts Guide*, 2nd Edition (2021).
HSG264	UK HSE HSG264, *Asbestos: The Survey Guide* (2012).
ISO (also ISO/IEC)	International Organization for Standardization / International Electrotechnical Commission.
K Factor	Microscope constant (**K**) as derived from the effective filter area of the given AFM membrane used for collecting the sample (**A**) and the projected eyepiece graticule area of the specific microscope used for the analysis (**a**).
LOR	Limit of Reporting.
MFM (also NOHSC:3003)	Membrane Filter Method. As described by the Australian Government National Occupational Health and Safety Commission, *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres*, 2nd Edition [NOHSC:3003(2005)].
NEPM (also ASC NEPM)	National Environment Protection (Assessment of Site Contamination) Measure, (2013, as amended).
Organic	Organic Fibres Detected. Organic may refer to Natural or Man-Made Polymeric Fibres. Identified in accordance with AS 4964-2004.
PCM	Phase Contrast Microscopy. As used for Fibre Counting according to the MFM.
PLM	Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 4964-2004.
Sampling	Unless otherwise stated Eurofins are not responsible for sampling equipment or the sampling process.
SMF	Synthetic Mineral Fibre Detected. SMF may also refer to Man Made Vitreous Fibres. Identified in accordance with AS 4964-2004.
SRA	Sample Receipt Advice.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix.
UK HSE HSG	United Kingdom, Health and Safety Executive, Health and Safety Guidance, publication.
UMF	Unidentified Mineral Fibre Detected. Fibrous minerals that are detected but have not been unequivocally identified by PLM with DS according the AS 4964-2004. May include (but not limited to) Actinolite, Anthophyllite or Tremolite asbestos.
WA DOH	Reference document for the NEPM. Government of Western Australia, *Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia* (updated 2021), including Appendix Four: *Laboratory analysis*
Weighted Average	Combined average % w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (**$\%_{WA}$**).

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Asbestos Counter/Identifier:

Sayeed Abu	Senior Analyst-Asbestos
Laxman Dias	Senior Analyst-Asbestos

Authorised by:

Chamath JHM Annakkage	Senior Analyst-Asbestos
Laxman Dias	Senior Analyst-Asbestos

Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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Chain of Custody

JBS&G

PROJECT NO.: 62236
PROJECT NAME: GREEN SQUARE STAGE 3 & 4 AQ
DATE NEEDED BY: STANDARD
LABORATORY BATCH NO.:
SAMPLERS: LC, AH, MD, CD, AS.
QC LEVEL: NEPM (2013)
PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) ....CDAGGER.....@jbsg.com.au; (3) ....A.J.SMITH.....@jbsg.com.au LCHU@JBSG.COM.AU ; AHOLLAND@JBSG.COM

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
AQ013 - 1	SOIL	16/3/23		DAG.			X	
2							X	
3							X	
4							X	
5							X	
6							X	
7							X	
8							X	
9							X	
10							X	
11							X	
12							X	
13							X	
14							X	
QC07							X	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: LCHU DATE: 16/3/23 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: DATE: 17/3 9:10 OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C
NAME: DATE: OF:	CONSIGNMENT NOTE NO. TRANSPORT CO	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

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Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Christopher Dagger
Project name:	GREEN SQUARE STAGE 3 & 4 AQ
Project ID:	62236
Turnaround time:	3 Day
Date/Time received	Mar 16, 2023 5:10 PM
Eurofins reference	973227

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	Sample Temperature of chilled sample on the batch as recorded by Eurofins Sample Receipt : 4 degrees Celsius.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
X	Split sample sent to requested external lab.
X	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Andrew Black on phone : (+61) 2 9900 8490 or by email: AndrewBlack@eurofins.com

Results will be delivered electronically via email to Christopher Dagger - cdagger@jbsg.com.au.

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Received: Mar 16, 2023 5:10 PM
Due: Mar 22, 2023
Priority: 3 Day
Contact Name: Christopher Dagger

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	AQO13_1	Mar 16, 2023		Soil	S23-Ma0044455	X
2	AQO13_2	Mar 16, 2023		Soil	S23-Ma0044456	X
3	AQO13_3	Mar 16, 2023		Soil	S23-Ma0044457	X
4	AQO13_4	Mar 16, 2023		Soil	S23-Ma0044458	X
5	AQO13_5	Mar 16, 2023		Soil	S23-Ma0044459	X
6	AQO13_6	Mar 16, 2023		Soil	S23-Ma0044460	X
7	AQO13_7	Mar 16, 2023		Soil	S23-Ma0044461	X
8	AQO13_8	Mar 16, 2023		Soil	S23-Ma0044462	X
9	AQO13_9	Mar 16, 2023		Soil	S23-Ma0044463	X
10	AQO13_10	Mar 16, 2023		Soil	S23-Ma0044464	X
11	AQO13_11	Mar 16, 2023		Soil	S23-Ma0044465	X
12	AQO13_12	Mar 16, 2023		Soil	S23-Ma0044466	X
13	AQO13_13	Mar 16, 2023		Soil	S23-Ma0044467	X

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Fax:

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Contact Name: Christopher Dagger

Eurofins Analytical Services Manager : Andrew Black

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Sydney Laboratory - NATA # 1261 Site # 18217						X
14	AQO13_14	Mar 16, 2023		Soil	S23-Ma0044468	X
15	QC07	Mar 16, 2023		Soil	S23-Ma0044469	X
Test Counts						15

Certificate of Analysis

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025–Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention:	Christopher Dagger
Report	973227-AID
Project Name	GREEN SQUARE STAGE 3 & 4 AQ
Project ID	62236
Received Date	Mar 16, 2023
Date Reported	Mar 23, 2023

Methodology:

Asbestos Fibre Identification	Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques. *NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.*
Unknown Mineral Fibres	Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity. *NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.*
Subsampling Soil Samples	The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed. *NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.*
Bonded asbestos-containing material (ACM)	The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination.The resultant material is then further examined in accordance with AS 4964 - 2004. *NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.*
Limit of Reporting	The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w). The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk). *NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos".This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.*

Project Name GREEN SQUARE STAGE 3 & 4 AQ
Project ID 62236
Date Sampled Mar 16, 2023
Report 973227-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
AQO13_1	23-Ma0044455	Mar 16, 2023	Approximate Sample 738g Sample consisted of: Brown coarse-grained soil, glass, bitumen and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQO13_2	23-Ma0044456	Mar 16, 2023	Approximate Sample 652g Sample consisted of: Brown coarse-grained soil, brick, bitumen and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQO13_3	23-Ma0044457	Mar 16, 2023	Approximate Sample 584g Sample consisted of: Brown coarse-grained soil, bitumen, brick, glass and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQO13_4	23-Ma0044458	Mar 16, 2023	Approximate Sample 530g Sample consisted of: Brown coarse-grained clayey soil, plaster, corroded metal and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQO13_5	23-Ma0044459	Mar 16, 2023	Approximate Sample 733g Sample consisted of: Brown coarse-grained clayey sandy soil, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQO13_6	23-Ma0044460	Mar 16, 2023	Approximate Sample 732g Sample consisted of: Brown coarse-grained clayey soil, sand stone, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQO13_7	23-Ma0044461	Mar 16, 2023	Approximate Sample 804g Sample consisted of: Brown fine-grained clayey soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQO13_8	23-Ma0044462	Mar 16, 2023	Approximate Sample 683g Sample consisted of: Brown fine-grained clayey soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
AQO13_9	23-Ma0044463	Mar 16, 2023	Approximate Sample 995g Sample consisted of: Brown coarse-grained clayey soil, bitumen, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQO13_10	23-Ma0044464	Mar 16, 2023	Approximate Sample 680g Sample consisted of: Brown coarse-grained clayey soil, cement, bitumen, corroded metal and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQO13_11	23-Ma0044465	Mar 16, 2023	Approximate Sample 850g Sample consisted of: Brown coarse-grained clayey soil, brick, corroded metal and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQO13_12	23-Ma0044466	Mar 16, 2023	Approximate Sample 838g Sample consisted of: Brown fine-grained clayey soil, bitumen, organic debris and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQO13_13	23-Ma0044467	Mar 16, 2023	Approximate Sample 671g Sample consisted of: Brown fine-grained clayey soil, organic debris, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQO13_14	23-Ma0044468	Mar 16, 2023	Approximate Sample 860g Sample consisted of: Brown fine-grained clayey soil, organic debris, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
QC07	23-Ma0044469	Mar 16, 2023	Approximate Sample 642g Sample consisted of: Brown coarse-grained soil, bitumen and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	Mar 18, 2023	Indefinite

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Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West NSW 2304
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Tel: +61 3 8564 5000	Tel: +61 3 8564 5000	Tel: +61 2 9900 8400	Tel: +61 2 6113 8091	Tel: +61 7 3902 4600	NATA# 1261
NATA# 1261 Site# 1254	NATA# 1261 Site# 25403	NATA# 1261 Site# 18217	NATA# 1261 Site# 25466	NATA# 1261 Site# 20794	Site# 25079 & 25289

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NSW 2000

Project Name: GREEN SQUARE STAGE 3 & 4 AQ
Project ID: 62236

Order No.:
Report #: 973227
Phone: 02 8245 0300
Fax:

Received: Mar 16, 2023 5:10 PM
Due: Mar 23, 2023
Priority: 3 Day
Contact Name: Christopher Dagger

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	AQO13_1	Mar 16, 2023		Soil	S23-Ma0044455	X
2	AQO13_2	Mar 16, 2023		Soil	S23-Ma0044456	X
3	AQO13_3	Mar 16, 2023		Soil	S23-Ma0044457	X
4	AQO13_4	Mar 16, 2023		Soil	S23-Ma0044458	X
5	AQO13_5	Mar 16, 2023		Soil	S23-Ma0044459	X
6	AQO13_6	Mar 16, 2023		Soil	S23-Ma0044460	X
7	AQO13_7	Mar 16, 2023		Soil	S23-Ma0044461	X
8	AQO13_8	Mar 16, 2023		Soil	S23-Ma0044462	X
9	AQO13_9	Mar 16, 2023		Soil	S23-Ma0044463	X
10	AQO13_10	Mar 16, 2023		Soil	S23-Ma0044464	X
11	AQO13_11	Mar 16, 2023		Soil	S23-Ma0044465	X
12	AQO13_12	Mar 16, 2023		Soil	S23-Ma0044466	X
13	AQO13_13	Mar 16, 2023		Soil	S23-Ma0044467	X

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NATA# 1261 Site# 1254	NATA# 1261 Site# 25403	NATA# 1261 Site# 18217	NATA# 1261 Site# 25466	NATA# 1261 Site# 20794	Site# 25079 & 25289

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NSW 2000

Project Name: GREEN SQUARE STAGE 3 & 4 AQ
Project ID: 62236

Order No.:
Report #: 973227
Phone: 02 8245 0300
Fax:

Received: Mar 16, 2023 5:10 PM
Due: Mar 23, 2023
Priority: 3 Day
Contact Name: Christopher Dagger

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
14	AQO13_14	Mar 16, 2023		Soil	S23-Ma0044468	X
15	QC07	Mar 16, 2023		Soil	S23-Ma0044469	X
Test Counts						15

Internal Quality Control Review and Glossary General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with the colour **blue** indicates data provided by customer that may have an impact on the results.
5. This report replaces any interim results previously issued.

Holding Times

Please refer to the most recent version of the 'Sample Preservation and Container Guide' for holding times (QS3001).
If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

% w/w:	Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples (**% w/w**)
F/fld	Airborne fibre filter loading as Fibres (**N**) per Fields counted (**n**)
F/mL	Airborne fibre reported concentration as Fibres per millilitre of air drawn over the sampler membrane (**C**)
g, kg	Mass, e.g. of whole sample (**M**) or asbestos-containing find within the sample (**m**)
g/kg	Concentration in grams per kilogram
L, mL	Volume, e.g. of air as measured in AFM (**V** = **r** x **t**)
L/min	Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (**r**)
min	Time (**t**), e.g. of air sample collection period

Calculations

Airborne Fibre Concentration: $C = \left(\frac{A}{a}\right) \times \left(\frac{N}{n}\right) \times \left(\frac{1}{r}\right) \times \left(\frac{1}{t}\right) = K \times \left(\frac{N}{n}\right) \times \left(\frac{1}{V}\right)$

Asbestos Content (as asbestos): $\%\, w/w = \frac{(m \times P_A)}{M}$

Weighted Average (of asbestos): $\%_{WA} = \sum \frac{(m \times P_A)_x}{x}$

Terms

%asbestos	Estimated percentage of asbestos in a given matrix. May be derived from knowledge or experience of the material, informed by HSG264 *Appendix 2*, else assumed to be 15% in accordance with WA DOH *Appendix 2* (**P_A**).
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded (non-friable) condition. For the purposes of the NEPM and WA DOH, ACM corresponds to material larger than 7 mm x 7 mm.
AF	Asbestos Fines. Asbestos contamination within a soil sample, as defined by WA DOH. Includes loose fibre bundles and small pieces of friable and non-friable material such as asbestos cement fragments mixed with soil. Considered under the NEPM as equivalent to “non-bonded / friable”.
AFM	Airborne Fibre Monitoring, e.g. by the MFM.
Amosite	Amosite Asbestos Detected. Amosite may also refer to Fibrous Grunerite or Brown Asbestos. Identified in accordance with AS 4964-2004.
AS	Australian Standard.
Asbestos Content (as asbestos)	Total % w/w asbestos content in asbestos-containing finds in a soil sample (**% w/w)**.
Chrysotile	Chrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in accordance with AS 4964-2004.
COC	Chain of Custody.
Crocidolite	Crocidolite Asbestos Detected. Crocidolite may also refer to Fibrous Riebeckite or Blue Asbestos. Identified in accordance with AS 4964-2004.
Dry	Sample is dried by heating prior to analysis.
DS	Dispersion Staining. Technique required for Unequivocal Identification of asbestos fibres by PLM.
FA	Fibrous Asbestos. Asbestos containing material that is wholly or in part friable, including materials with higher asbestos content with a propensity to become friable with handling, and any material that was previously non-friable and in a severely degraded condition. For the purposes of the NEPM and WA DOH, FA generally corresponds to material larger than 7 mm x 7 mm, although FA may be more difficult to visibly distinguish and may be assessed as AF.
Fibre Count	Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003
Fibre ID	Fibre Identification. Unequivocal identification of asbestos fibres according to AS 4964-2004. Includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos.
Friable	Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory’s remit to assess degree of friability.
HSG248	UK HSE HSG248, *Asbestos: The Analysts Guide*, 2nd Edition (2021).
HSG264	UK HSE HSG264, *Asbestos: The Survey Guide* (2012).
ISO (also ISO/IEC)	International Organization for Standardization / International Electrotechnical Commission.
K Factor	Microscope constant (**K**) as derived from the effective filter area of the given AFM membrane used for collecting the sample (**A**) and the projected eyepiece graticule area of the specific microscope used for the analysis (**a**).
LOR	Limit of Reporting.
MFM (also NOHSC:3003)	Membrane Filter Method. As described by the Australian Government National Occupational Health and Safety Commission, *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres*, 2nd Edition [NOHSC:3003(2005)].
NEPM (also ASC NEPM)	National Environment Protection (Assessment of Site Contamination) Measure, (2013, as amended).
Organic	Organic Fibres Detected. Organic may refer to Natural or Man-Made Polymeric Fibres. Identified in accordance with AS 4964-2004.
PCM	Phase Contrast Microscopy. As used for Fibre Counting according to the MFM.
PLM	Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 4964-2004.
Sampling	Unless otherwise stated Eurofins are not responsible for sampling equipment or the sampling process.
SMF	Synthetic Mineral Fibre Detected. SMF may also refer to Man Made Vitreous Fibres. Identified in accordance with AS 4964-2004.
SRA	Sample Receipt Advice.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix.
UK HSE HSG	United Kingdom, Health and Safety Executive, Health and Safety Guidance, publication.
UMF	Unidentified Mineral Fibre Detected. Fibrous minerals that are detected but have not been unequivocally identified by PLM with DS according the AS 4964-2004. May include (but not limited to) Actinolite, Anthophyllite or Tremolite asbestos.
WA DOH	Reference document for the NEPM. Government of Western Australia, *Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia* (updated 2021), including Appendix Four: *Laboratory analysis*
Weighted Average	Combined average % w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (**$\%_{WA}$**).

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Asbestos Counter/Identifier:

Bennel Jiri	Senior Analyst-Asbestos

Authorised by:

Chamath JHM Annakkage	Senior Analyst-Asbestos

Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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Chain of Custody

JBS&G

PROJECT NO.: 62236	LABORATORY BATCH NO.:
PROJECT NAME: GREEN SQUARE STAGE 3 & 4	SAMPLERS: LAYMOND CHU, AARON SMITH
DATE NEEDED BY: STANDARD	QC LEVEL: NEPM (2013)

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....CDAGGER.....@jbsg.com.au; (3) .....A.SSMITH.....@jbsg.com.au LCHU@JBSG.COM.AU; AHOLLAND@JBSG.COM.AU

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
AQ004_1	SOIL	17/3/23		BAG.			X	
2							X	
3							X	
4							X	
5							X	
6							X	
7							X	
8							X	
9							X	
10							X	
11							X	
12							X	
13							X	
14							X	
QC13							X	
ACM_AQ004_3	MATERIAL					X		
ACM-AQ004_4								

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: L. CHU DATE: 17/3/23.	CONSIGNMENT NOTE NO.	NAME: DATE: 17/3 OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	5:10 31.0	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

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Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Christopher Dagger
Project name:	GREEN SQUARE STAGE 3 & 4 AQ
Project ID:	62236
Turnaround time:	3 Day
Date/Time received	Mar 17, 2023 5:10 PM
Eurofins reference	973228

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	Sample Temperature of chilled sample on the batch as recorded by Eurofins Sample Receipt : 31 degrees Celsius.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
N/A	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
✗	Split sample sent to requested external lab.
✗	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Andrew Black on phone : (+61) 2 9900 8490 or by email: AndrewBlack@eurofins.com

Results will be delivered electronically via email to Christopher Dagger - cdagger@jbsg.com.au.

Global Leader - Results you can trust

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: GREEN SQUARE STAGE 3 & 4 AQ
Project ID: 62236

Order No.:
Report #: 973228
Phone: 02 8245 0300
Fax:

Received: Mar 17, 2023 5:10 PM
Due: Mar 24, 2023
Priority: 3 Day
Contact Name: Christopher Dagger

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	CANCELLED
Sydney Laboratory - NATA # 1261 Site # 18217						X	X
External Laboratory							
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**		
1	AQ004_1	Mar 17, 2023		Soil	S23-Ma0044470	X	
2	AQ004_2	Mar 17, 2023		Soil	S23-Ma0044471	X	
3	AQ004_3	Mar 17, 2023		Soil	S23-Ma0044472	X	
4	AQ004_4	Mar 17, 2023		Soil	S23-Ma0044473	X	
5	AQ004_5	Mar 17, 2023		Soil	S23-Ma0044474	X	
6	AQ004_6	Mar 17, 2023		Soil	S23-Ma0044475	X	
7	AQ004_7	Mar 17, 2023		Soil	S23-Ma0044476	X	
8	AQ004_8	Mar 17, 2023		Soil	S23-Ma0044477	X	
9	AQ004_9	Mar 17, 2023		Soil	S23-Ma0044478	X	
10	AQ004_10	Mar 17, 2023		Soil	S23-Ma0044479	X	
11	AQ004_11	Mar 17, 2023		Soil	S23-Ma0044480	X	
12	AQ004_12	Mar 17, 2023		Soil	S23-Ma0044481	X	
13	AQ004_13	Mar 17, 2023		Soil	S23-Ma0044482	X	

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Tel: +61 3 8564 5000	Tel: +61 3 8564 5000	Tel: +61 2 9900 8400	Tel: +61 2 6113 8091	Tel: +61 7 3902 4600	NATA# 1261
NATA# 1261 Site# 1254	NATA# 1261 Site# 25403	NATA# 1261 Site# 18217	NATA# 1261 Site# 25466	NATA# 1261 Site# 20794	Site# 25079 & 25289

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Sample Detail						Asbestos - WA guidelines	CANCELLED
Sydney Laboratory - NATA # 1261 Site # 18217						X	X
14	AQ004_14	Mar 17, 2023		Soil	S23-Ma0044483	X	
15	QC13	Mar 17, 2023		Soil	S23-Ma0044484	X	
16	ACM_AQ004_3	Mar 17, 2023		Building Materials	S23-Ma0044485		X
17	ACM_AQ004_4	Mar 17, 2023		Building Materials	S23-Ma0044486		X
Test Counts						15	2

Certificate of Analysis

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NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025–Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention:	Christopher Dagger
Report	973228-AID-V2
Project Name	GREEN SQUARE STAGE 3 & 4 AQ
Project ID	62236
Received Date	Mar 17, 2023
Date Reported	Mar 30, 2023

Methodology:

Asbestos Fibre Identification	Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques. *NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.*
Unknown Mineral Fibres	Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity. *NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.*
Subsampling Soil Samples	The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed. *NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.*
Bonded asbestos-containing material (ACM)	The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination.The resultant material is then further examined in accordance with AS 4964 - 2004. *NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.*
Limit of Reporting	The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w). The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk). *NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos".This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.*

Project Name GREEN SQUARE STAGE 3 & 4 AQ
Project ID 62236
Date Sampled Mar 17, 2023
Report 973228-AID-V2

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
AQ004_1	23-Ma0044470	Mar 17, 2023	Approximate Sample 792g Sample consisted of: Brown coarse-grained sandy soil, glass, brick, cement, plaster and rocks	AF: Chrysotile asbestos detected in weathered fibre plaster cement material. Approximate raw weight of AF = 0.029g* Estimated asbestos content in AF = 0.0029g* Total estimated asbestos concentration in AF = 0.00036% w/w* No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ004_2	23-Ma0044471	Mar 17, 2023	Approximate Sample 579g Sample consisted of: Brown coarse-grained sandy soil, brick, cement, plaster, corroded metal, glass and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ004_3	23-Ma0044472	Mar 17, 2023	Approximate Sample 633g Sample consisted of: Brown coarse-grained sandy soil, glass, brick, cement, corroded metal and rocks	AF: Chrysotile, amosite and crocidolite asbestos detected in fibre cement fragments. Approximate raw weight of AF = 0.042g* Estimated asbestos content in AF = 0.0063g* Total estimated asbestos concentration in AF = 0.00099% w/w* No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ004_4	23-Ma0044473	Mar 17, 2023	Approximate Sample 700g Sample consisted of: Brown coarse-grained sandy soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
AQ004_5	23-Ma0044474	Mar 17, 2023	Approximate Sample 825g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ004_6	23-Ma0044475	Mar 17, 2023	Approximate Sample 728g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ004_7	23-Ma0044476	Mar 17, 2023	Approximate Sample 849g Sample consisted of: Brown fine-grained clayey soil and rocks	FA: Chrysotile asbestos detected in weathered fibre plaster material. Approximate raw weight of FA = 7.7g Estimated asbestos content in FA = 1.5g* AF: Chrysotile asbestos detected in the form of loose fibre bundles. Approximate raw weight of AF = 0.089g* Estimated asbestos content in AF = 0.085g* Total estimated asbestos content in FA and AF = 1.6g* Total estimated asbestos concentration in FA and AF = 0.19% w/w* Organic fibre detected. No trace asbestos detected.
AQ004_8	23-Ma0044477	Mar 17, 2023	Approximate Sample 9402g Sample consisted of: Brown fine-grained clayey soil, glass, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ004_9	23-Ma0044478	Mar 17, 2023	Approximate Sample 872g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ004_10	23-Ma0044479	Mar 17, 2023	Approximate Sample 672g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ004_11	23-Ma0044480	Mar 17, 2023	Approximate Sample 733g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ004_12	23-Ma0044481	Mar 17, 2023	Approximate Sample 739g Sample consisted of: Light grey fine-grained clayey soil, glass, cement, plaster and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ004_13	23-Ma0044482	Mar 17, 2023	Approximate Sample 921g Sample consisted of: Light grey fine-grained clayey soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
AQ004_14	23-Ma0044483	Mar 17, 2023	Approximate Sample 801g Sample consisted of: Light grey fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
QC13	23-Ma0044484	Mar 17, 2023	Approximate Sample 648g Sample consisted of: Brown coarse-grained sandy soil, brick, cement, glass and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	Mar 18, 2023	Indefinite

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Sydney Laboratory - NATA # 1261 Site # 18217						X	X
External Laboratory							
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**		
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5	AQ004_5	Mar 17, 2023		Soil	S23-Ma0044474	X	
6	AQ004_6	Mar 17, 2023		Soil	S23-Ma0044475	X	
7	AQ004_7	Mar 17, 2023		Soil	S23-Ma0044476	X	
8	AQ004_8	Mar 17, 2023		Soil	S23-Ma0044477	X	
9	AQ004_9	Mar 17, 2023		Soil	S23-Ma0044478	X	
10	AQ004_10	Mar 17, 2023		Soil	S23-Ma0044479	X	
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12	AQ004_12	Mar 17, 2023		Soil	S23-Ma0044481	X	
13	AQ004_13	Mar 17, 2023		Soil	S23-Ma0044482	X	

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15	QC13	Mar 17, 2023		Soil	S23-Ma0044484	X	
16	ACM_AQ004_3	Mar 17, 2023		Building Materials	S23-Ma0044485		X
17	ACM_AQ004_4	Mar 17, 2023		Building Materials	S23-Ma0044486		X
Test Counts						15	2

Internal Quality Control Review and Glossary General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with the colour **blue** indicates data provided by customer that may have an impact on the results.
5. This report replaces any interim results previously issued.

Holding Times

Please refer to the most recent version of the 'Sample Preservation and Container Guide' for holding times (QS3001).
If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

% w/w:	Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples (**% w/w**)
F/fld	Airborne fibre filter loading as Fibres (**N**) per Fields counted (**n**)
F/mL	Airborne fibre reported concentration as Fibres per millilitre of air drawn over the sampler membrane (**C**)
g, kg	Mass, e.g. of whole sample (**M**) or asbestos-containing find within the sample (**m**)
g/kg	Concentration in grams per kilogram
L, mL	Volume, e.g. of air as measured in AFM (**V** = **r** x **t**)
L/min	Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (**r**)
min	Time (**t**), e.g. of air sample collection period

Calculations

Airborne Fibre Concentration: $C = \left(\frac{A}{a}\right) \times \left(\frac{N}{n}\right) \times \left(\frac{1}{r}\right) \times \left(\frac{1}{t}\right) = K \times \left(\frac{N}{n}\right) \times \left(\frac{1}{V}\right)$

Asbestos Content (as asbestos): $\%\, w/w = \frac{(m \times P_A)}{M}$

Weighted Average (of asbestos): $\%_{WA} = \sum \frac{(m \times P_A)_x}{x}$

Terms

%asbestos	Estimated percentage of asbestos in a given matrix. May be derived from knowledge or experience of the material, informed by HSG264 *Appendix 2*, else assumed to be 15% in accordance with WA DOH *Appendix 2* (**P_A**).
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded (non-friable) condition. For the purposes of the NEPM and WA DOH, ACM corresponds to material larger than 7 mm x 7 mm.
AF	Asbestos Fines. Asbestos contamination within a soil sample, as defined by WA DOH. Includes loose fibre bundles and small pieces of friable and non-friable material such as asbestos cement fragments mixed with soil. Considered under the NEPM as equivalent to “non-bonded / friable”.
AFM	Airborne Fibre Monitoring, e.g. by the MFM.
Amosite	Amosite Asbestos Detected. Amosite may also refer to Fibrous Grunerite or Brown Asbestos. Identified in accordance with AS 4964-2004.
AS	Australian Standard.
Asbestos Content (as asbestos)	Total % w/w asbestos content in asbestos-containing finds in a soil sample (**% w/w)**.
Chrysotile	Chrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in accordance with AS 4964-2004.
COC	Chain of Custody.
Crocidolite	Crocidolite Asbestos Detected. Crocidolite may also refer to Fibrous Riebeckite or Blue Asbestos. Identified in accordance with AS 4964-2004.
Dry	Sample is dried by heating prior to analysis.
DS	Dispersion Staining. Technique required for Unequivocal Identification of asbestos fibres by PLM.
FA	Fibrous Asbestos. Asbestos containing material that is wholly or in part friable, including materials with higher asbestos content with a propensity to become friable with handling, and any material that was previously non-friable and in a severely degraded condition. For the purposes of the NEPM and WA DOH, FA generally corresponds to material larger than 7 mm x 7 mm, although FA may be more difficult to visibly distinguish and may be assessed as AF.
Fibre Count	Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003
Fibre ID	Fibre Identification. Unequivocal identification of asbestos fibres according to AS 4964-2004. Includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos.
Friable	Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory’s remit to assess degree of friability.
HSG248	UK HSE HSG248, *Asbestos: The Analysts Guide*, 2nd Edition (2021).
HSG264	UK HSE HSG264, *Asbestos: The Survey Guide* (2012).
ISO (also ISO/IEC)	International Organization for Standardization / International Electrotechnical Commission.
K Factor	Microscope constant (**K**) as derived from the effective filter area of the given AFM membrane used for collecting the sample (**A**) and the projected eyepiece graticule area of the specific microscope used for the analysis (**a**).
LOR	Limit of Reporting.
MFM (also NOHSC:3003)	Membrane Filter Method. As described by the Australian Government National Occupational Health and Safety Commission, *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres*, 2nd Edition [NOHSC:3003(2005)].
NEPM (also ASC NEPM)	National Environment Protection (Assessment of Site Contamination) Measure, (2013, as amended).
Organic	Organic Fibres Detected. Organic may refer to Natural or Man-Made Polymeric Fibres. Identified in accordance with AS 4964-2004.
PCM	Phase Contrast Microscopy. As used for Fibre Counting according to the MFM.
PLM	Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 4964-2004.
Sampling	Unless otherwise stated Eurofins are not responsible for sampling equipment or the sampling process.
SMF	Synthetic Mineral Fibre Detected. SMF may also refer to Man Made Vitreous Fibres. Identified in accordance with AS 4964-2004.
SRA	Sample Receipt Advice.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix.
UK HSE HSG	United Kingdom, Health and Safety Executive, Health and Safety Guidance, publication.
UMF	Unidentified Mineral Fibre Detected. Fibrous minerals that are detected but have not been unequivocally identified by PLM with DS according the AS 4964-2004. May include (but not limited to) Actinolite, Anthophyllite or Tremolite asbestos.
WA DOH	Reference document for the NEPM. Government of Western Australia, *Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia* (updated 2021), including Appendix Four: *Laboratory analysis*
Weighted Average	Combined average % w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (**$\%_{WA}$**).

Comments

V2- new version amend chilling comment in SRA as no chilling required being asbestos samples.

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	N/A
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Asbestos Counter/Identifier:

Chamath JHM Annakkage	Senior Analyst-Asbestos

Authorised by:

Sayeed Abu	Senior Analyst-Asbestos

Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

Eurofins shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

Chain of Custody

JBS&G

PROJECT NO.: 62236
PROJECT NAME: Green Square Stage 3+4
DATE NEEDED BY: Standard
PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) cdagger@jbsg.com.au; (3) qjsmith@jbsg.com.au aholland@jbsg.com.au, lchu@jbsg.com.au

LABORATORY BATCH NO.:
SAMPLERS: Amy Holland + Martine Desperles
QC LEVEL: NEPM (2013)

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
AQ005 – 1	Soil	17/3/23					X	
– 2	↓	↓					X	
– 3							X	
– 4							X	
– 5							X	
– 6							X	
– 7							X	
– 8							X	
– 9							X	
– 10							X	
– 11							X	
– 12							X	
– 12.5							X	
QC14							X	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Amy Holland DATE: 17/3/23	CONSIGNMENT NOTE NO.	NAME: DATE: 5:10	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	OF: 28°C	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd **Vial;** VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

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973229

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Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Christopher Dagger
Project name:	GREEN SQUARE STAGE 3 & 4 AQ
Project ID:	62236
Turnaround time:	3 Day
Date/Time received	Mar 17, 2023 5:10 PM
Eurofins reference	973229

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	Sample Temperature of chilled sample on the batch as recorded by Eurofins Sample Receipt : 31 degrees Celsius.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
N/A	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
X	Split sample sent to requested external lab.
X	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Andrew Black on phone : (+61) 2 9900 8490 or by email: AndrewBlack@eurofins.com

Results will be delivered electronically via email to Christopher Dagger - cdagger@jbsg.com.au.

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email: EnviroSales@eurofins.com

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: GREEN SQUARE STAGE 3 & 4 AQ
Project ID: 62236

Order No.:
Report #: 973229
Phone: 02 8245 0300
Fax:

Received: Mar 17, 2023 5:10 PM
Due: Mar 23, 2023
Priority: 3 Day
Contact Name: Christopher Dagger

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	AQ005_1	Mar 17, 2023		Soil	S23-Ma0044487	X
2	AQ005_2	Mar 17, 2023		Soil	S23-Ma0044488	X
3	AQ005_3	Mar 17, 2023		Soil	S23-Ma0044489	X
4	AQ005_4	Mar 17, 2023		Soil	S23-Ma0044490	X
5	AQ005_5	Mar 17, 2023		Soil	S23-Ma0044491	X
6	AQ005_6	Mar 17, 2023		Soil	S23-Ma0044492	X
7	AQ005_7	Mar 17, 2023		Soil	S23-Ma0044493	X
8	AQ005_8	Mar 17, 2023		Soil	S23-Ma0044494	X
9	AQ005_9	Mar 17, 2023		Soil	S23-Ma0044495	X
10	AQ005_10	Mar 17, 2023		Soil	S23-Ma0044496	X
11	AQ005_11	Mar 17, 2023		Soil	S23-Ma0044497	X
12	AQ005_12	Mar 17, 2023		Soil	S23-Ma0044498	X
13	AQ005_12.5	Mar 17, 2023		Soil	S23-Ma0044499	X

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NATA# 1261 Site# 1254	NATA# 1261 Site# 25403	NATA# 1261 Site# 18217	NATA# 1261 Site# 25466	NATA# 1261 Site# 20794	Site# 25079 & 25289

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Company Name: JBS & G Australia (NSW) P/L
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Project Name: GREEN SQUARE STAGE 3 & 4 AQ
Project ID: 62236

Order No.:
Report #: 973229
Phone: 02 8245 0300
Fax:

Received: Mar 17, 2023 5:10 PM
Due: Mar 23, 2023
Priority: 3 Day
Contact Name: Christopher Dagger

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
14	QC14	Mar 17, 2023		Soil	S23-Ma0044500	X
Test Counts						14

Certificate of Analysis

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025–Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention:	Christopher Dagger
Report	973229-AID-V2
Project Name	GREEN SQUARE STAGE 3 & 4 AQ
Project ID	62236
Received Date	Mar 17, 2023
Date Reported	Mar 30, 2023

Methodology:

Asbestos Fibre Identification	Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques. *NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.*
Unknown Mineral Fibres	Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity. *NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.*
Subsampling Soil Samples	The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed. *NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.*
Bonded asbestos-containing material (ACM)	The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination.The resultant material is then further examined in accordance with AS 4964 - 2004. *NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.*
Limit of Reporting	The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w). The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk). *NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos".This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.*

Project Name GREEN SQUARE STAGE 3 & 4 AQ
Project ID 62236
Date Sampled Mar 17, 2023
Report 973229-AID-V2

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
AQ005_1	23-Ma0044487	Mar 17, 2023	Approximate Sample 694g Sample consisted of: Brown coarse-grained soil, brick, cement, bitumen and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ005_2	23-Ma0044488	Mar 17, 2023	Approximate Sample 797g Sample consisted of: Brown coarse-grained sandy soil, brick, cement, coal and rocks	ACM: Chrysotile, amosite and crocidolite asbestos detected in fibre cement fragments. Chrysotile asbestos detected in fibro bituminous material. Approximate raw weight of ACM = 11g Total estimated asbestos content in ACM = 1.7g* Total estimated asbestos concentration in ACM = 0.21% w/w* Organic fibre detected. No trace asbestos detected.
AQ005_3	23-Ma0044489	Mar 17, 2023	Approximate Sample 745g Sample consisted of: Brown coarse-grained sandy soil, brick, bitumen, cement, glass and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ005_4	23-Ma0044490	Mar 17, 2023	Approximate Sample 744g Sample consisted of: Brown coarse-grained sandy soil, brick, cement, glass and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ005_5	23-Ma0044491	Mar 17, 2023	Approximate Sample 670g Sample consisted of: Brown fine-grained clayey soil, brick, glass, corroded metal and rocks	AF: Chrysotile asbestos detected in the form of loose fibre bundles. Approximate raw weight of AF = 0.013g* Estimated asbestos content in AF = 0.012g* Total estimated asbestos concentration in AF = 0.0018% w/w* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
AQ005_6	23-Ma0044492	Mar 17, 2023	Approximate Sample 807g Sample consisted of: Brown coarse-grained soil, glass and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ005_7	23-Ma0044493	Mar 17, 2023	Approximate Sample 1026g Sample consisted of: Brown fine-grained clayey soil, glass, cement, brick and rocks	ACM: Chrysotile asbestos detected in fibre cement fragments. Approximate raw weight of ACM = 2.3g Total estimated asbestos content in ACM = 0.23g* Total estimated asbestos concentration in ACM = 0.022% w/w* Organic fibre detected. No trace asbestos detected.
AQ005_8	23-Ma0044494	Mar 17, 2023	Approximate Sample 972g Sample consisted of: Brown fine-grained clayey soil, glass, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ005_9	23-Ma0044495	Mar 17, 2023	Approximate Sample 792g Sample consisted of: Brown fine-grained clayey soil, glass, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ005_10	23-Ma0044496	Mar 17, 2023	Approximate Sample 890g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ005_11	23-Ma0044497	Mar 17, 2023	Approximate Sample 985g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ005_12	23-Ma0044498	Mar 17, 2023	Approximate Sample 730g Sample consisted of: Light grey fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ005_12.5	23-Ma0044499	Mar 17, 2023	Approximate Sample 870g Sample consisted of: Light grey fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
QC14	23-Ma0044500	Mar 17, 2023	Approximate Sample 796g Sample consisted of: Light grey fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	Mar 18, 2023	Indefinite

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NATA# 1261 Site# 1254	NATA# 1261 Site# 25403	NATA# 1261 Site# 18217	NATA# 1261 Site# 25466	NATA# 1261 Site# 20794	Site# 25079 & 25289

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Priority: 3 Day
Contact Name: Christopher Dagger

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	AQ005_1	Mar 17, 2023		Soil	S23-Ma0044487	X
2	AQ005_2	Mar 17, 2023		Soil	S23-Ma0044488	X
3	AQ005_3	Mar 17, 2023		Soil	S23-Ma0044489	X
4	AQ005_4	Mar 17, 2023		Soil	S23-Ma0044490	X
5	AQ005_5	Mar 17, 2023		Soil	S23-Ma0044491	X
6	AQ005_6	Mar 17, 2023		Soil	S23-Ma0044492	X
7	AQ005_7	Mar 17, 2023		Soil	S23-Ma0044493	X
8	AQ005_8	Mar 17, 2023		Soil	S23-Ma0044494	X
9	AQ005_9	Mar 17, 2023		Soil	S23-Ma0044495	X
10	AQ005_10	Mar 17, 2023		Soil	S23-Ma0044496	X
11	AQ005_11	Mar 17, 2023		Soil	S23-Ma0044497	X
12	AQ005_12	Mar 17, 2023		Soil	S23-Ma0044498	X
13	AQ005_12.5	Mar 17, 2023		Soil	S23-Ma0044499	X

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Contact Name: Christopher Dagger

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
14	QC14	Mar 17, 2023		Soil	S23-Ma0044500	X
Test Counts						14

Internal Quality Control Review and Glossary General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with the colour **blue** indicates data provided by customer that may have an impact on the results.
5. This report replaces any interim results previously issued.

Holding Times

Please refer to the most recent version of the 'Sample Preservation and Container Guide' for holding times (QS3001).
If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

% w/w:	Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples (**% w/w**)
F/fld	Airborne fibre filter loading as Fibres (**N**) per Fields counted (**n**)
F/mL	Airborne fibre reported concentration as Fibres per millilitre of air drawn over the sampler membrane (**C**)
g, kg	Mass, e.g. of whole sample (**M**) or asbestos-containing find within the sample (**m**)
g/kg	Concentration in grams per kilogram
L, mL	Volume, e.g. of air as measured in AFM (**V** = **r** x **t**)
L/min	Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (**r**)
min	Time (**t**), e.g. of air sample collection period

Calculations

Airborne Fibre Concentration: $C = \left(\frac{A}{a}\right) \times \left(\frac{N}{n}\right) \times \left(\frac{1}{r}\right) \times \left(\frac{1}{t}\right) = K \times \left(\frac{N}{n}\right) \times \left(\frac{1}{V}\right)$

Asbestos Content (as asbestos): $\%\, w/w = \frac{(m \times P_A)}{M}$

Weighted Average (of asbestos): $\%_{WA} = \sum \frac{(m \times P_A)_x}{x}$

Terms

%asbestos	Estimated percentage of asbestos in a given matrix. May be derived from knowledge or experience of the material, informed by HSG264 *Appendix 2*, else assumed to be 15% in accordance with WA DOH *Appendix 2* (**P_A**).
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded (non-friable) condition. For the purposes of the NEPM and WA DOH, ACM corresponds to material larger than 7 mm x 7 mm.
AF	Asbestos Fines. Asbestos contamination within a soil sample, as defined by WA DOH. Includes loose fibre bundles and small pieces of friable and non-friable material such as asbestos cement fragments mixed with soil. Considered under the NEPM as equivalent to “non-bonded / friable”.
AFM	Airborne Fibre Monitoring, e.g. by the MFM.
Amosite	Amosite Asbestos Detected. Amosite may also refer to Fibrous Grunerite or Brown Asbestos. Identified in accordance with AS 4964-2004.
AS	Australian Standard.
Asbestos Content (as asbestos)	Total % w/w asbestos content in asbestos-containing finds in a soil sample (**% w/w)**.
Chrysotile	Chrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in accordance with AS 4964-2004.
COC	Chain of Custody.
Crocidolite	Crocidolite Asbestos Detected. Crocidolite may also refer to Fibrous Riebeckite or Blue Asbestos. Identified in accordance with AS 4964-2004.
Dry	Sample is dried by heating prior to analysis.
DS	Dispersion Staining. Technique required for Unequivocal Identification of asbestos fibres by PLM.
FA	Fibrous Asbestos. Asbestos containing material that is wholly or in part friable, including materials with higher asbestos content with a propensity to become friable with handling, and any material that was previously non-friable and in a severely degraded condition. For the purposes of the NEPM and WA DOH, FA generally corresponds to material larger than 7 mm x 7 mm, although FA may be more difficult to visibly distinguish and may be assessed as AF.
Fibre Count	Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003
Fibre ID	Fibre Identification. Unequivocal identification of asbestos fibres according to AS 4964-2004. Includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos.
Friable	Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory’s remit to assess degree of friability.
HSG248	UK HSE HSG248, *Asbestos: The Analysts Guide*, 2nd Edition (2021).
HSG264	UK HSE HSG264, *Asbestos: The Survey Guide* (2012).
ISO (also ISO/IEC)	International Organization for Standardization / International Electrotechnical Commission.
K Factor	Microscope constant (**K**) as derived from the effective filter area of the given AFM membrane used for collecting the sample (**A**) and the projected eyepiece graticule area of the specific microscope used for the analysis (**a**).
LOR	Limit of Reporting.
MFM (also NOHSC:3003)	Membrane Filter Method. As described by the Australian Government National Occupational Health and Safety Commission, *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres*, 2nd Edition [NOHSC:3003(2005)].
NEPM (also ASC NEPM)	National Environment Protection (Assessment of Site Contamination) Measure, (2013, as amended).
Organic	Organic Fibres Detected. Organic may refer to Natural or Man-Made Polymeric Fibres. Identified in accordance with AS 4964-2004.
PCM	Phase Contrast Microscopy. As used for Fibre Counting according to the MFM.
PLM	Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 4964-2004.
Sampling	Unless otherwise stated Eurofins are not responsible for sampling equipment or the sampling process.
SMF	Synthetic Mineral Fibre Detected. SMF may also refer to Man Made Vitreous Fibres. Identified in accordance with AS 4964-2004.
SRA	Sample Receipt Advice.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix.
UK HSE HSG	United Kingdom, Health and Safety Executive, Health and Safety Guidance, publication.
UMF	Unidentified Mineral Fibre Detected. Fibrous minerals that are detected but have not been unequivocally identified by PLM with DS according the AS 4964-2004. May include (but not limited to) Actinolite, Anthophyllite or Tremolite asbestos.
WA DOH	Reference document for the NEPM. Government of Western Australia, *Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia* (updated 2021), including Appendix Four: *Laboratory analysis*
Weighted Average	Combined average % w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (**$\%_{WA}$**).

Comments

V2- new version to amend attempted to chill comment to N/A since not applicable for asbestos samples.

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	N/A
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Asbestos Counter/Identifier:

Chamath JHM Annakkage	Senior Analyst-Asbestos

Authorised by:

Sayeed Abu	Senior Analyst-Asbestos

Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

Eurofins shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

Chain of Custody

JBS&G

PROJECT NO.: 62236

PROJECT NAME: Green Square Stage 3 & 4 AQ

DATE NEEDED BY: STANDARD

LABORATORY BATCH NO.:

SAMPLERS: LC, AH, MD, AS, CD

QC LEVEL: NEPM (2013)

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) CDAGGER@jbsg.com.au; (3) ASSMITH@jbsg.com.au LCHU@JBSG.COM.AU; AHOLLAND@JBSG.COM

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
AQ010 – 01	SOIL	16/3/23	–	BAG			X	
AQ010 – 02							X	
AQ010 – 03							X	
04							X	
05							X	
06							X	
07							X	
08							X	
09							X	
10							X	
11							X	
12							X	
13							X	
14							X	
QC05							X	

RELINQUISHED BY:
NAME: LCHU DATE: 16/3/23
OF: JBS&G

NAME: DATE:
OF:

METHOD OF SHIPMENT:
CONSIGNMENT NOTE NO.
TRANSPORT CO.
CONSIGNMENT NOTE NO.
TRANSPORT CO

RECEIVED BY:
NAME: [illegible]
DATE: 16/3 5:10
OF: ems

NAME: DATE:
OF:

FOR RECEIVING LAB USE ONLY:
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP 22.9 deg C
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; **VS** = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

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97223 1

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NATA# 1261 Site# 18217

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NATA# 1261 Site# 25466

Brisbane
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Mayfield West NSW 2304
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NATA# 1261
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Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Christopher Dagger
Project name:	GREEN SQUARE STAGE 3 & 4 AQ
Project ID:	62236
Turnaround time:	3 Day
Date/Time received	Mar 17, 2023 5:10 PM
Eurofins reference	973231

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	Sample Temperature of chilled sample on the batch as recorded by Eurofins Sample Receipt : 31 degrees Celsius.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
N/A	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
X	Split sample sent to requested external lab.
X	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Andrew Black on phone : (+61) 2 9900 8490 or by email: AndrewBlack@eurofins.com

Results will be delivered electronically via email to Christopher Dagger - cdagger@jbsg.com.au.

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

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Tel: +61 3 8564 5000	Tel: +61 3 8564 5000	Tel: +61 2 9900 8400	Tel: +61 2 6113 8091	Tel: +61 7 3902 4600	NATA# 1261
NATA# 1261 Site# 1254	NATA# 1261 Site# 25403	NATA# 1261 Site# 18217	NATA# 1261 Site# 25466	NATA# 1261 Site# 20794	Site# 25079 & 25289

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
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Project Name: GREEN SQUARE STAGE 3 & 4 AQ
Project ID: 62236

Order No.:
Report #: 973231
Phone: 02 8245 0300
Fax:

Received: Mar 17, 2023 5:10 PM
Due: Mar 24, 2023
Priority: 3 Day
Contact Name: Christopher Dagger

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	AQ010_1	Mar 16, 2023		Soil	S23-Ma0044501	X
2	AQ010_2	Mar 16, 2023		Soil	S23-Ma0044502	X
3	AQ010_3	Mar 16, 2023		Soil	S23-Ma0044503	X
4	AQ010_4	Mar 16, 2023		Soil	S23-Ma0044504	X
5	AQ010_5	Mar 16, 2023		Soil	S23-Ma0044505	X
6	AQ010_6	Mar 16, 2023		Soil	S23-Ma0044506	X
7	AQ010_7	Mar 16, 2023		Soil	S23-Ma0044507	X
8	AQ010_8	Mar 16, 2023		Soil	S23-Ma0044508	X
9	AQ010_9	Mar 16, 2023		Soil	S23-Ma0044509	X
10	AQ010_10	Mar 16, 2023		Soil	S23-Ma0044510	X
11	AQ010_11	Mar 16, 2023		Soil	S23-Ma0044511	X
12	AQ010_12	Mar 16, 2023		Soil	S23-Ma0044512	X
13	AQ010_13	Mar 16, 2023		Soil	S23-Ma0044513	X

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NATA# 1261 Site# 1254	NATA# 1261 Site# 25403	NATA# 1261 Site# 18217	NATA# 1261 Site# 25466	NATA# 1261 Site# 20794	Site# 25079 & 25289

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Company Name: JBS & G Australia (NSW) P/L
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NSW 2000

Project Name: GREEN SQUARE STAGE 3 & 4 AQ
Project ID: 62236

Order No.:
Report #: 973231
Phone: 02 8245 0300
Fax:

Received: Mar 17, 2023 5:10 PM
Due: Mar 24, 2023
Priority: 3 Day
Contact Name: Christopher Dagger

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
14	AQ010_14	Mar 16, 2023		Soil	S23-Ma0044514	X
15	QC05	Mar 16, 2023		Soil	S23-Ma0044515	X
Test Counts						15

Certificate of Analysis

Environment Testing

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025–Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention:	Christopher Dagger
Report	973231-AID-V2
Project Name	GREEN SQUARE STAGE 3 & 4 AQ
Project ID	62236
Received Date	Mar 17, 2023
Date Reported	Mar 30, 2023

Methodology:

Asbestos Fibre Identification	Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques. *NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.*
Unknown Mineral Fibres	Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity. *NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.*
Subsampling Soil Samples	The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed. *NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.*
Bonded asbestos-containing material (ACM)	The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination.The resultant material is then further examined in accordance with AS 4964 - 2004. *NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.*
Limit of Reporting	The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w). The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk). *NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos".This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.*

Project Name GREEN SQUARE STAGE 3 & 4 AQ
Project ID 62236
Date Sampled Mar 16, 2023
Report 973231-AID-V2

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
AQ010_1	23-Ma0044501	Mar 16, 2023	Approximate Sample 682g Sample consisted of: Brown coarse-grained soil, coal, bitumen, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ010_2	23-Ma0044502	Mar 16, 2023	Approximate Sample 855g Sample consisted of: Brown coarse-grained soil, coal, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ010_3	23-Ma0044503	Mar 16, 2023	Approximate Sample 634g Sample consisted of: Brown coarse- grained sandy clayey soil, bitumen, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ010_4	23-Ma0044504	Mar 16, 2023	Approximate Sample 538g Sample consisted of: Brown coarse- grained sandy clayey soil, bitumen, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ010_5	23-Ma0044505	Mar 16, 2023	Approximate Sample 860g Sample consisted of: Brown fine-grained clayey soil, plaster, cement, brick, ceramic material, corroded metal and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ010_6	23-Ma0044506	Mar 16, 2023	Approximate Sample 958g Sample consisted of: Brown fine-grained clayey soil, coal, brick, cement, rocks and debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ010_7	23-Ma0044507	Mar 16, 2023	Approximate Sample 794g Sample consisted of: Brown fine-grained clayey soil, bitumen, cement, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ010_8	23-Ma0044508	Mar 16, 2023	Approximate Sample 888g Sample consisted of: Brown fine-grained clayey soil, brick, glass, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
AQ010_9	23-Ma0044509	Mar 16, 2023	Approximate Sample 792g Sample consisted of: Brown fine-grained clayey soil, bitumen, glass, cement, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ010_10	23-Ma0044510	Mar 16, 2023	Approximate Sample 657g Sample consisted of: Brown fine-grained clayey soil, glass and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ010_11	23-Ma0044511	Mar 16, 2023	Approximate Sample 785g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ010_12	23-Ma0044512	Mar 16, 2023	Approximate Sample 803g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ010_13	23-Ma0044513	Mar 16, 2023	Approximate Sample 905g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ010_14	23-Ma0044514	Mar 16, 2023	Approximate Sample 783g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
QC05	23-Ma0044515	Mar 16, 2023	Approximate Sample 627g Sample consisted of: Brown coarse-grained soil, bitumen, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	Mar 18, 2023	Indefinite

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NATA# 1261 Site# 1254	NATA# 1261 Site# 25403	NATA# 1261 Site# 18217	NATA# 1261 Site# 25466	NATA# 1261 Site# 20794	Site# 25079 & 25289

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NSW 2000

Project Name: GREEN SQUARE STAGE 3 & 4 AQ
Project ID: 62236

Order No.:
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Phone: 02 8245 0300
Fax:

Received: Mar 17, 2023 5:10 PM
Due: Mar 24, 2023
Priority: 3 Day
Contact Name: Christopher Dagger

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	AQ010_1	Mar 16, 2023		Soil	S23-Ma0044501	X
2	AQ010_2	Mar 16, 2023		Soil	S23-Ma0044502	X
3	AQ010_3	Mar 16, 2023		Soil	S23-Ma0044503	X
4	AQ010_4	Mar 16, 2023		Soil	S23-Ma0044504	X
5	AQ010_5	Mar 16, 2023		Soil	S23-Ma0044505	X
6	AQ010_6	Mar 16, 2023		Soil	S23-Ma0044506	X
7	AQ010_7	Mar 16, 2023		Soil	S23-Ma0044507	X
8	AQ010_8	Mar 16, 2023		Soil	S23-Ma0044508	X
9	AQ010_9	Mar 16, 2023		Soil	S23-Ma0044509	X
10	AQ010_10	Mar 16, 2023		Soil	S23-Ma0044510	X
11	AQ010_11	Mar 16, 2023		Soil	S23-Ma0044511	X
12	AQ010_12	Mar 16, 2023		Soil	S23-Ma0044512	X
13	AQ010_13	Mar 16, 2023		Soil	S23-Ma0044513	X

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Project Name: GREEN SQUARE STAGE 3 & 4 AQ
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Phone: 02 8245 0300
Fax:

Received: Mar 17, 2023 5:10 PM
Due: Mar 24, 2023
Priority: 3 Day
Contact Name: Christopher Dagger

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
14	AQ010_14	Mar 16, 2023		Soil	S23-Ma0044514	X
15	QC05	Mar 16, 2023		Soil	S23-Ma0044515	X
Test Counts						15

Internal Quality Control Review and Glossary General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with the colour **blue** indicates data provided by customer that may have an impact on the results.
5. This report replaces any interim results previously issued.

Holding Times

Please refer to the most recent version of the 'Sample Preservation and Container Guide' for holding times (QS3001).
If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

% w/w:	Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples (**% w/w**)
F/fld	Airborne fibre filter loading as Fibres (**N**) per Fields counted (**n**)
F/mL	Airborne fibre reported concentration as Fibres per millilitre of air drawn over the sampler membrane (**C**)
g, kg	Mass, e.g. of whole sample (**M**) or asbestos-containing find within the sample (**m**)
g/kg	Concentration in grams per kilogram
L, mL	Volume, e.g. of air as measured in AFM (**V** = **r** x **t**)
L/min	Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (**r**)
min	Time (**t**), e.g. of air sample collection period

Calculations

Airborne Fibre Concentration: $C = \left(\frac{A}{a}\right) \times \left(\frac{N}{n}\right) \times \left(\frac{1}{r}\right) \times \left(\frac{1}{t}\right) = K \times \left(\frac{N}{n}\right) \times \left(\frac{1}{V}\right)$

Asbestos Content (as asbestos): $\%\, w/w = \frac{(m \times P_A)}{M}$

Weighted Average (of asbestos): $\%_{WA} = \sum \frac{(m \times P_A)_x}{x}$

Terms

%asbestos	Estimated percentage of asbestos in a given matrix. May be derived from knowledge or experience of the material, informed by HSG264 *Appendix 2*, else assumed to be 15% in accordance with WA DOH *Appendix 2* (**P_A**).
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded (non-friable) condition. For the purposes of the NEPM and WA DOH, ACM corresponds to material larger than 7 mm x 7 mm.
AF	Asbestos Fines. Asbestos contamination within a soil sample, as defined by WA DOH. Includes loose fibre bundles and small pieces of friable and non-friable material such as asbestos cement fragments mixed with soil. Considered under the NEPM as equivalent to “non-bonded / friable”.
AFM	Airborne Fibre Monitoring, e.g. by the MFM.
Amosite	Amosite Asbestos Detected. Amosite may also refer to Fibrous Grunerite or Brown Asbestos. Identified in accordance with AS 4964-2004.
AS	Australian Standard.
Asbestos Content (as asbestos)	Total % w/w asbestos content in asbestos-containing finds in a soil sample (**% w/w)**.
Chrysotile	Chrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in accordance with AS 4964-2004.
COC	Chain of Custody.
Crocidolite	Crocidolite Asbestos Detected. Crocidolite may also refer to Fibrous Riebeckite or Blue Asbestos. Identified in accordance with AS 4964-2004.
Dry	Sample is dried by heating prior to analysis.
DS	Dispersion Staining. Technique required for Unequivocal Identification of asbestos fibres by PLM.
FA	Fibrous Asbestos. Asbestos containing material that is wholly or in part friable, including materials with higher asbestos content with a propensity to become friable with handling, and any material that was previously non-friable and in a severely degraded condition. For the purposes of the NEPM and WA DOH, FA generally corresponds to material larger than 7 mm x 7 mm, although FA may be more difficult to visibly distinguish and may be assessed as AF.
Fibre Count	Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003
Fibre ID	Fibre Identification. Unequivocal identification of asbestos fibres according to AS 4964-2004. Includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos.
Friable	Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory’s remit to assess degree of friability.
HSG248	UK HSE HSG248, *Asbestos: The Analysts Guide*, 2nd Edition (2021).
HSG264	UK HSE HSG264, *Asbestos: The Survey Guide* (2012).
ISO (also ISO/IEC)	International Organization for Standardization / International Electrotechnical Commission.
K Factor	Microscope constant (**K**) as derived from the effective filter area of the given AFM membrane used for collecting the sample (**A**) and the projected eyepiece graticule area of the specific microscope used for the analysis (**a**).
LOR	Limit of Reporting.
MFM (also NOHSC:3003)	Membrane Filter Method. As described by the Australian Government National Occupational Health and Safety Commission, *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres*, 2nd Edition [NOHSC:3003(2005)].
NEPM (also ASC NEPM)	National Environment Protection (Assessment of Site Contamination) Measure, (2013, as amended).
Organic	Organic Fibres Detected. Organic may refer to Natural or Man-Made Polymeric Fibres. Identified in accordance with AS 4964-2004.
PCM	Phase Contrast Microscopy. As used for Fibre Counting according to the MFM.
PLM	Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 4964-2004.
Sampling	Unless otherwise stated Eurofins are not responsible for sampling equipment or the sampling process.
SMF	Synthetic Mineral Fibre Detected. SMF may also refer to Man Made Vitreous Fibres. Identified in accordance with AS 4964-2004.
SRA	Sample Receipt Advice.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix.
UK HSE HSG	United Kingdom, Health and Safety Executive, Health and Safety Guidance, publication.
UMF	Unidentified Mineral Fibre Detected. Fibrous minerals that are detected but have not been unequivocally identified by PLM with DS according the AS 4964-2004. May include (but not limited to) Actinolite, Anthophyllite or Tremolite asbestos.
WA DOH	Reference document for the NEPM. Government of Western Australia, *Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia* (updated 2021), including Appendix Four: *Laboratory analysis*
Weighted Average	Combined average % w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (**$\%_{WA}$**).

Comments

V2- new version to amend attempted to chill comment to N/A since not applicable for asbestos samples.

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	N/A
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Asbestos Counter/Identifier:

Laxman Dias	Senior Analyst-Asbestos

Authorised by:

Chamath JHM Annakkage	Senior Analyst-Asbestos

Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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Chain of Custody

JBS&G

PROJECT NO.: 62236
PROJECT NAME: Green Square Stage 3 + 4
DATE NEEDED BY: Standard
LABORATORY BATCH NO.:
SAMPLERS: Amy Holland, Martine Desperles
QC LEVEL: NEPM (2013)
PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) cdagger@jbsg.com.au; (3) ajsmith@jbsg.com.au aholland@jbsg.com.au, lchu@jbsg.com.au
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
AQ0817_01	soil	17/3/23		asbestos bag		X		X	
AQ017_02	↓	↓		↓		X		X	
_03						X		X	
_04						X		X	
_05						X		X	
_06						X		X	
_07						X		X	
_08						X		X	
_09						X		X	
_10						X		X	
_11						X		X	
_12						X		X	
_13						X		X	
↓ _14						X		X	
QC12	↓	↓		↓		X		X	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Amy Holland DATE: 17/3/23	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE:	
		OF:	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid **Prsvd Vial; VS = Sulfuric** Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

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97 3283

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Rolleston,
Christchurch 7675
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Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Christopher Dagger
Project name:	GREEN SQUARE STAGE 3 & 4 AQ
Project ID:	62236
Turnaround time:	3 Day
Date/Time received	Mar 17, 2023 5:10 PM
Eurofins reference	973233

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	Sample Temperature of chilled sample on the batch as recorded by Eurofins Sample Receipt : 31 degrees Celsius.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
N/A	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
X	Split sample sent to requested external lab.
X	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Andrew Black on phone : (+61) 2 9900 8490 or by email: AndrewBlack@eurofins.com

Results will be delivered electronically via email to Christopher Dagger - cdagger@jbsg.com.au.

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eurofins

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

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ABN: 50 005 085 521

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Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West NSW 2304
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	Tel: +61 2 4968 8448
Tel: +61 3 8564 5000	Tel: +61 3 8564 5000	Tel: +61 2 9900 8400	Tel: +61 2 6113 8091	Tel: +61 7 3902 4600	NATA# 1261
NATA# 1261 Site# 1254	NATA# 1261 Site# 25403	NATA# 1261 Site# 18217	NATA# 1261 Site# 25466	NATA# 1261 Site# 20794	Site# 25079 & 25289

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Sydney
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Project Name: GREEN SQUARE STAGE 3 & 4 AQ
Project ID: 62236

Order No.:
Report #: 973233
Phone: 02 8245 0300
Fax:

Received: Mar 17, 2023 5:10 PM
Due: Mar 23, 2023
Priority: 3 Day
Contact Name: Christopher Dagger

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	AQ017_1	Mar 17, 2023		Soil	S23-Ma0044524	X
2	AQ017_2	Mar 17, 2023		Soil	S23-Ma0044525	X
3	AQ017_3	Mar 17, 2023		Soil	S23-Ma0044526	X
4	AQ017_4	Mar 17, 2023		Soil	S23-Ma0044527	X
5	AQ017_5	Mar 17, 2023		Soil	S23-Ma0044528	X
6	AQ017_6	Mar 17, 2023		Soil	S23-Ma0044529	X
7	AQ017_7	Mar 17, 2023		Soil	S23-Ma0044530	X
8	AQ017_8	Mar 17, 2023		Soil	S23-Ma0044531	X
9	AQ017_9	Mar 17, 2023		Soil	S23-Ma0044532	X
10	AQ017_10	Mar 17, 2023		Soil	S23-Ma0044533	X
11	AQ017_11	Mar 17, 2023		Soil	S23-Ma0044534	X
12	AQ017_12	Mar 17, 2023		Soil	S23-Ma0044535	X
13	AQ017_13	Mar 17, 2023		Soil	S23-Ma0044536	X

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NATA# 1261 Site# 1254	NATA# 1261 Site# 25403	NATA# 1261 Site# 18217	NATA# 1261 Site# 25466	NATA# 1261 Site# 20794	Site# 25079 & 25289

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IANZ# 1327	IANZ# 1290

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Project Name: GREEN SQUARE STAGE 3 & 4 AQ
Project ID: 62236

Order No.:
Report #: 973233
Phone: 02 8245 0300
Fax:

Received: Mar 17, 2023 5:10 PM
Due: Mar 23, 2023
Priority: 3 Day
Contact Name: Christopher Dagger

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
14	AQ017_14	Mar 17, 2023		Soil	S23-Ma0044537	X
15	QC12	Mar 17, 2023		Soil	S23-Ma0044538	X
Test Counts						15

Certificate of Analysis

Environment Testing

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025–Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention:	Christopher Dagger
Report	973233-AID-V2
Project Name	GREEN SQUARE STAGE 3 & 4 AQ
Project ID	62236
Received Date	Mar 17, 2023
Date Reported	Mar 30, 2023

Methodology:

Asbestos Fibre Identification	Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques. *NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.*
Unknown Mineral Fibres	Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity. *NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.*
Subsampling Soil Samples	The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed. *NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.*
Bonded asbestos-containing material (ACM)	The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination.The resultant material is then further examined in accordance with AS 4964 - 2004. *NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.*
Limit of Reporting	The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w). The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk). *NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos".This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.*

Project Name GREEN SQUARE STAGE 3 & 4 AQ
Project ID 62236
Date Sampled Mar 17, 2023
Report 973233-AID-V2

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
AQ017_1	23-Ma0044524	Mar 17, 2023	Approximate Sample 589g Sample consisted of: Brown coarse-grained sandy soil, brick, cement, coal and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ017_2	23-Ma0044525	Mar 17, 2023	Approximate Sample 699g Sample consisted of: Brown coarse-grained sandy soil, brick, cement, coal and rocks	FA: Chrysotile asbestos detected in weathered fibre cement fragment. Approximate raw weight of FA = 0.0046g Estimated asbestos content in FA = 0.0037g* Total estimated asbestos concentration in FA = 0.00053% w/w* No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ017_3	23-Ma0044526	Mar 17, 2023	Approximate Sample 727g Sample consisted of: Brown coarse-grained sandy soil, cement, brick, bitumen and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ017_4	23-Ma0044527	Mar 17, 2023	Approximate Sample 725g Sample consisted of: Brown coarse-grained sandy soil, cement, brick, bitumen and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ017_5	23-Ma0044528	Mar 17, 2023	Approximate Sample 816g Sample consisted of: Brown coarse-grained sandy soil, brick, glass, cement, bitumen, rocks and debris	AF: Chrysotile asbestos detected in the form of loose fibres. Approximate raw weight of AF = 0.0012g* Estimated asbestos content in AF = 0.0012g* Total estimated asbestos concentration in AF = 0.00015% w/w* No asbestos detected at the reporting limit of 0.001% w/w.* Synthetic mineral fibre detected. Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
AQ017_6	23-Ma0044529	Mar 17, 2023	Approximate Sample 766g Sample consisted of: Brown coarse-grained sandy soil, bitumen and rocks	FA: Chrysotile asbestos detected in insulation sheet material. Approximate raw weight of FA = 0.47g Estimated asbestos content in FA = 0.33g* Total estimated asbestos concentration in FA = 0.043% w/w* Organic fibre detected. No trace asbestos detected.
AQ017_7	23-Ma0044530	Mar 17, 2023	Approximate Sample 747g Sample consisted of: Brown coarse-grained sandy soil, glass, brick and rocks	ACM: Chrysotile asbestos detected in fibre cement fragment. Approximate raw weight of ACM = 0.90g Total estimated asbestos content in ACM = 0.14g* Total estimated asbestos concentration in ACM = 0.018% w/w* Organic fibre detected. No trace asbestos detected.
AQ017_8	23-Ma0044531	Mar 17, 2023	Approximate Sample 911g Sample consisted of: Brown coarse-grained sandy soil, brick, cement, bitumen and rocks	AF: Chrysotile asbestos detected in the form of loose fibres. Approximate raw weight of AF = 0.0036g* Estimated asbestos content in AF = 0.0036g* Total estimated asbestos concentration in AF = 0.00040% w/w* No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ017_9	23-Ma0044532	Mar 17, 2023	Approximate Sample 705g Sample consisted of: Brown coarse-grained sandy soil, bitumen, cement, glass and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ017_10	23-Ma0044533	Mar 17, 2023	Approximate Sample 649g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ017_11	23-Ma0044534	Mar 17, 2023	Approximate Sample 636g Sample consisted of: Brown fine-grained clayey soil, coal, cement, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ017_12	23-Ma0044535	Mar 17, 2023	Approximate Sample 854g Sample consisted of: Brown fine-grained clayey soil, bitumen and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ017_13	23-Ma0044536	Mar 17, 2023	Approximate Sample 564g Sample consisted of: Brown coarse- grained sandy clayey soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
AQ017_14	23-Ma0044537	Mar 17, 2023	Approximate Sample 746g Sample consisted of: Brown coarse- grained sandy clayey soil, brick, bitumen, glass and rocks	AF: Chrysotile asbestos detected in the form of loose fibres. Approximate raw weight of AF = 0.0016g* Estimated asbestos content in AF = 0.0016g* Total estimated asbestos concentration in AF = 0.00021% w/w* No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
QC12	23-Ma0044538	Mar 17, 2023	Approximate Sample 752g Sample consisted of: Brown coarse- grained sandy clayey soil, brick, bitumen, glass and rocks	AF: Chrysotile asbestos detected in the form of loose fibres. Approximate raw weight of AF = 0.0012g* Estimated asbestos content in AF = 0.0012g* Total estimated asbestos concentration in AF = 0.00016% w/w* No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	Mar 18, 2023	Indefinite

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: GREEN SQUARE STAGE 3 & 4 AQ
Project ID: 62236

Order No.:
Report #: 973233
Phone: 02 8245 0300
Fax:

Received: Mar 17, 2023 5:10 PM
Due: Mar 23, 2023
Priority: 3 Day
Contact Name: Christopher Dagger

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	AQ017_1	Mar 17, 2023		Soil	S23-Ma0044524	X
2	AQ017_2	Mar 17, 2023		Soil	S23-Ma0044525	X
3	AQ017_3	Mar 17, 2023		Soil	S23-Ma0044526	X
4	AQ017_4	Mar 17, 2023		Soil	S23-Ma0044527	X
5	AQ017_5	Mar 17, 2023		Soil	S23-Ma0044528	X
6	AQ017_6	Mar 17, 2023		Soil	S23-Ma0044529	X
7	AQ017_7	Mar 17, 2023		Soil	S23-Ma0044530	X
8	AQ017_8	Mar 17, 2023		Soil	S23-Ma0044531	X
9	AQ017_9	Mar 17, 2023		Soil	S23-Ma0044532	X
10	AQ017_10	Mar 17, 2023		Soil	S23-Ma0044533	X
11	AQ017_11	Mar 17, 2023		Soil	S23-Ma0044534	X
12	AQ017_12	Mar 17, 2023		Soil	S23-Ma0044535	X
13	AQ017_13	Mar 17, 2023		Soil	S23-Ma0044536	X

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Contact Name: Christopher Dagger

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
14	AQ017_14	Mar 17, 2023		Soil	S23-Ma0044537	X
15	QC12	Mar 17, 2023		Soil	S23-Ma0044538	X
Test Counts						15

Internal Quality Control Review and Glossary General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with the colour **blue** indicates data provided by customer that may have an impact on the results.
5. This report replaces any interim results previously issued.

Holding Times

Please refer to the most recent version of the 'Sample Preservation and Container Guide' for holding times (QS3001).
If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

% w/w:	Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples (**% w/w**)
F/fld	Airborne fibre filter loading as Fibres (**N**) per Fields counted (**n**)
F/mL	Airborne fibre reported concentration as Fibres per millilitre of air drawn over the sampler membrane (**C**)
g, kg	Mass, e.g. of whole sample (**M**) or asbestos-containing find within the sample (**m**)
g/kg	Concentration in grams per kilogram
L, mL	Volume, e.g. of air as measured in AFM (**V** = **r** x **t**)
L/min	Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (**r**)
min	Time (**t**), e.g. of air sample collection period

Calculations

Airborne Fibre Concentration: $C = \left(\frac{A}{a}\right) \times \left(\frac{N}{n}\right) \times \left(\frac{1}{r}\right) \times \left(\frac{1}{t}\right) = K \times \left(\frac{N}{n}\right) \times \left(\frac{1}{V}\right)$

Asbestos Content (as asbestos): $\%\, w/w = \frac{(m \times P_A)}{M}$

Weighted Average (of asbestos): $\%_{WA} = \sum \frac{(m \times P_A)_x}{x}$

Terms

%asbestos	Estimated percentage of asbestos in a given matrix. May be derived from knowledge or experience of the material, informed by HSG264 *Appendix 2*, else assumed to be 15% in accordance with WA DOH *Appendix 2* (**P_A**).
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded (non-friable) condition. For the purposes of the NEPM and WA DOH, ACM corresponds to material larger than 7 mm x 7 mm.
AF	Asbestos Fines. Asbestos contamination within a soil sample, as defined by WA DOH. Includes loose fibre bundles and small pieces of friable and non-friable material such as asbestos cement fragments mixed with soil. Considered under the NEPM as equivalent to “non-bonded / friable”.
AFM	Airborne Fibre Monitoring, e.g. by the MFM.
Amosite	Amosite Asbestos Detected. Amosite may also refer to Fibrous Grunerite or Brown Asbestos. Identified in accordance with AS 4964-2004.
AS	Australian Standard.
Asbestos Content (as asbestos)	Total % w/w asbestos content in asbestos-containing finds in a soil sample (**% w/w)**.
Chrysotile	Chrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in accordance with AS 4964-2004.
COC	Chain of Custody.
Crocidolite	Crocidolite Asbestos Detected. Crocidolite may also refer to Fibrous Riebeckite or Blue Asbestos. Identified in accordance with AS 4964-2004.
Dry	Sample is dried by heating prior to analysis.
DS	Dispersion Staining. Technique required for Unequivocal Identification of asbestos fibres by PLM.
FA	Fibrous Asbestos. Asbestos containing material that is wholly or in part friable, including materials with higher asbestos content with a propensity to become friable with handling, and any material that was previously non-friable and in a severely degraded condition. For the purposes of the NEPM and WA DOH, FA generally corresponds to material larger than 7 mm x 7 mm, although FA may be more difficult to visibly distinguish and may be assessed as AF.
Fibre Count	Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003
Fibre ID	Fibre Identification. Unequivocal identification of asbestos fibres according to AS 4964-2004. Includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos.
Friable	Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory’s remit to assess degree of friability.
HSG248	UK HSE HSG248, *Asbestos: The Analysts Guide*, 2nd Edition (2021).
HSG264	UK HSE HSG264, *Asbestos: The Survey Guide* (2012).
ISO (also ISO/IEC)	International Organization for Standardization / International Electrotechnical Commission.
K Factor	Microscope constant (**K**) as derived from the effective filter area of the given AFM membrane used for collecting the sample (**A**) and the projected eyepiece graticule area of the specific microscope used for the analysis (**a**).
LOR	Limit of Reporting.
MFM (also NOHSC:3003)	Membrane Filter Method. As described by the Australian Government National Occupational Health and Safety Commission, *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres*, 2nd Edition [NOHSC:3003(2005)].
NEPM (also ASC NEPM)	National Environment Protection (Assessment of Site Contamination) Measure, (2013, as amended).
Organic	Organic Fibres Detected. Organic may refer to Natural or Man-Made Polymeric Fibres. Identified in accordance with AS 4964-2004.
PCM	Phase Contrast Microscopy. As used for Fibre Counting according to the MFM.
PLM	Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 4964-2004.
Sampling	Unless otherwise stated Eurofins are not responsible for sampling equipment or the sampling process.
SMF	Synthetic Mineral Fibre Detected. SMF may also refer to Man Made Vitreous Fibres. Identified in accordance with AS 4964-2004.
SRA	Sample Receipt Advice.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix.
UK HSE HSG	United Kingdom, Health and Safety Executive, Health and Safety Guidance, publication.
UMF	Unidentified Mineral Fibre Detected. Fibrous minerals that are detected but have not been unequivocally identified by PLM with DS according the AS 4964-2004. May include (but not limited to) Actinolite, Anthophyllite or Tremolite asbestos.
WA DOH	Reference document for the NEPM. Government of Western Australia, *Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia* (updated 2021), including Appendix Four: *Laboratory analysis*
Weighted Average	Combined average % w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (**$\%_{WA}$**).

Comments

V2- new version to amend attempted to chill comment to N/A since not applicable for asbestos samples.

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	N/A
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Asbestos Counter/Identifier:

Laxman Dias	Senior Analyst-Asbestos

Authorised by:

Chamath JHM Annakkage	Senior Analyst-Asbestos

Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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Chain of Custody

JBS&G

PROJECT NO.: 62236
PROJECT NAME: Green Square Stage 3 + 4
DATE NEEDED BY: Standard
LABORATORY BATCH NO.:
SAMPLERS: Amy Holland + Martine Desperles
QC LEVEL: NEPM (2013)
PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) ...claggen.....@jbsg.com.au; (3) ...a.j.smith.....@jbsg.com.au aholland@jbsg.com.au, lchu@jbsg.com.au
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
AQ015_01	Soil	16/3/23		bag		X		X	
_02						X		X	
_03						X		X	
_04						X		X	
_05						X		X	
_06						X		X	
_07						X		X	
_08						X		X	
_09						X		X	
_10						X		X	
_11						X		X	
_12						X		X	
_13						X		X	
_14						X		X	
QC 10						X		X	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Amy Holland DATE: 16/3/23	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE:	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = **Sulfuric Acid** Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

973234

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NATA# 1261 Site# 25403

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Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Christopher Dagger
Project name:	GREEN SQUARE STAGE 3 & 4 AQ
Project ID:	62236
Turnaround time:	3 Day
Date/Time received	Mar 17, 2023 5:10 PM
Eurofins reference	973234

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	Sample Temperature of chilled sample on the batch as recorded by Eurofins Sample Receipt : 31 degrees Celsius.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
N/A	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
✗	Split sample sent to requested external lab.
✗	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Andrew Black on phone : (+61) 2 9900 8490 or by email: AndrewBlack@eurofins.com

Results will be delivered electronically via email to Christopher Dagger - cdagger@jbsg.com.au.

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VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	Tel: +61 2 4968 8448
Tel: +61 3 8564 5000	Tel: +61 3 8564 5000	Tel: +61 2 9900 8400	Tel: +61 2 6113 8091	Tel: +61 7 3902 4600	NATA# 1261
NATA# 1261 Site# 1254	NATA# 1261 Site# 25403	NATA# 1261 Site# 18217	NATA# 1261 Site# 25466	NATA# 1261 Site# 20794	Site# 25079 & 25289

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Address: Level 1, 50 Margaret St
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Project ID: 62236

Order No.:
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Phone: 02 8245 0300
Fax:

Received: Mar 17, 2023 5:10 PM
Due: Mar 23, 2023
Priority: 3 Day
Contact Name: Christopher Dagger

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	AQ015_1	Mar 17, 2023		Soil	S23-Ma0044539	X
2	AQ015_2	Mar 17, 2023		Soil	S23-Ma0044540	X
3	AQ015_3	Mar 17, 2023		Soil	S23-Ma0044541	X
4	AQ015_4	Mar 17, 2023		Soil	S23-Ma0044542	X
5	AQ015_5	Mar 17, 2023		Soil	S23-Ma0044543	X
6	AQ015_6	Mar 17, 2023		Soil	S23-Ma0044544	X
7	AQ015_7	Mar 17, 2023		Soil	S23-Ma0044545	X
8	AQ015_8	Mar 17, 2023		Soil	S23-Ma0044546	X
9	AQ015_9	Mar 17, 2023		Soil	S23-Ma0044547	X
10	AQ015_10	Mar 17, 2023		Soil	S23-Ma0044548	X
11	AQ015_11	Mar 17, 2023		Soil	S23-Ma0044549	X
12	AQ015_12	Mar 17, 2023		Soil	S23-Ma0044550	X
13	AQ015_13	Mar 17, 2023		Soil	S23-Ma0044551	X

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NATA# 1261 Site# 1254	NATA# 1261 Site# 25403	NATA# 1261 Site# 18217	NATA# 1261 Site# 25466	NATA# 1261 Site# 20794	Site# 25079 & 25289

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NSW 2000

Project Name: GREEN SQUARE STAGE 3 & 4 AQ
Project ID: 62236

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Phone: 02 8245 0300
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Received: Mar 17, 2023 5:10 PM
Due: Mar 23, 2023
Priority: 3 Day
Contact Name: Christopher Dagger

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
14	AQ015_14	Mar 17, 2023		Soil	S23-Ma0044552	X
15	QC10	Mar 17, 2023		Soil	S23-Ma0044553	X
Test Counts						15

Certificate of Analysis

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NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025–Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
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NSW 2000

Attention:	Christopher Dagger
Report	973234-AID-V2
Project Name	GREEN SQUARE STAGE 3 & 4 AQ
Project ID	62236
Received Date	Mar 17, 2023
Date Reported	Mar 30, 2023

Methodology:

Asbestos Fibre Identification	Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques. *NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.*
Unknown Mineral Fibres	Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity. *NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.*
Subsampling Soil Samples	The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed. *NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.*
Bonded asbestos-containing material (ACM)	The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination.The resultant material is then further examined in accordance with AS 4964 - 2004. *NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.*
Limit of Reporting	The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w). The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk). *NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos".This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.*

Project Name GREEN SQUARE STAGE 3 & 4 AQ
Project ID 62236
Date Sampled Mar 17, 2023
Report 973234-AID-V2

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
AQ015_1	23-Ma0044539	Mar 17, 2023	Approximate Sample 506g Sample consisted of: Brown fine-grained clayey soil, brick, cement, glass and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ015_2	23-Ma0044540	Mar 17, 2023	Approximate Sample 682g Sample consisted of: Brown coarse-grained sandy soil, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ015_3	23-Ma0044541	Mar 17, 2023	Approximate Sample 578g Sample consisted of: Brown coarse-grained sandy soil, corroded metal, glass, cement, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ015_4	23-Ma0044542	Mar 17, 2023	Approximate Sample 575g Sample consisted of: Brown coarse-grained sandy soil, corroded metal, brick, cement, soft fibrous material, charcoal and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ015_5	23-Ma0044543	Mar 17, 2023	Approximate Sample 718g Sample consisted of: Brown coarse-grained sandy soil, corroded metal, glass, cement and rocks	ACM: Chrysotile asbestos detected in fibre cement fragment. Approximate raw weight of ACM = 3.0g Total estimated asbestos content in ACM = 0.30g* Total estimated asbestos concentration in ACM = 0.041% w/w* AF: Chrysotile asbestos detected in fibre cement fragments and in the form of loose fibre bundles. Approximate raw weight of AF = 0.0038g* Estimated asbestos content in AF = 0.0038g* Total estimated asbestos concentration in AF = 0.00053% w/w* No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
AQ015_6	23-Ma0044544	Mar 17, 2023	Approximate Sample 794g Sample consisted of: Brown coarse-grained sandy soil, brick, cement, charcoal and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ015_7	23-Ma0044545	Mar 17, 2023	Approximate Sample 645g Sample consisted of: Brown coarse-grained sandy soil,cement, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ015_8	23-Ma0044546	Mar 17, 2023	Approximate Sample 710g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ015_9	23-Ma0044547	Mar 17, 2023	Approximate Sample 595g Sample consisted of: Brown fine-grained clayey soil, cement, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ015_10	23-Ma0044548	Mar 17, 2023	Approximate Sample 517g Sample consisted of: Brown coarse-grained sandy soil, corroded metal and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ015_11	23-Ma0044549	Mar 17, 2023	Approximate Sample 564g Sample consisted of: Brown fine-grained clayey soil, brick, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ015_12	23-Ma0044550	Mar 17, 2023	Approximate Sample 689g Sample consisted of: Light grey fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ015_13	23-Ma0044551	Mar 17, 2023	Approximate Sample 863g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ015_14	23-Ma0044552	Mar 17, 2023	Approximate Sample 797g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
QC10	23-Ma0044553	Mar 17, 2023	Approximate Sample 817g Sample consisted of: Light grey fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	Mar 18, 2023	Indefinite

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: GREEN SQUARE STAGE 3 & 4 AQ
Project ID: 62236

Order No.:
Report #: 973234
Phone: 02 8245 0300
Fax:

Received: Mar 17, 2023 5:10 PM
Due: Mar 23, 2023
Priority: 3 Day
Contact Name: Christopher Dagger

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	AQ015_1	Mar 17, 2023		Soil	S23-Ma0044539	X
2	AQ015_2	Mar 17, 2023		Soil	S23-Ma0044540	X
3	AQ015_3	Mar 17, 2023		Soil	S23-Ma0044541	X
4	AQ015_4	Mar 17, 2023		Soil	S23-Ma0044542	X
5	AQ015_5	Mar 17, 2023		Soil	S23-Ma0044543	X
6	AQ015_6	Mar 17, 2023		Soil	S23-Ma0044544	X
7	AQ015_7	Mar 17, 2023		Soil	S23-Ma0044545	X
8	AQ015_8	Mar 17, 2023		Soil	S23-Ma0044546	X
9	AQ015_9	Mar 17, 2023		Soil	S23-Ma0044547	X
10	AQ015_10	Mar 17, 2023		Soil	S23-Ma0044548	X
11	AQ015_11	Mar 17, 2023		Soil	S23-Ma0044549	X
12	AQ015_12	Mar 17, 2023		Soil	S23-Ma0044550	X
13	AQ015_13	Mar 17, 2023		Soil	S23-Ma0044551	X

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Company Name: JBS & G Australia (NSW) P/L
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NSW 2000

Project Name: GREEN SQUARE STAGE 3 & 4 AQ
Project ID: 62236

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Phone: 02 8245 0300
Fax:

Received: Mar 17, 2023 5:10 PM
Due: Mar 23, 2023
Priority: 3 Day
Contact Name: Christopher Dagger

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
14	AQ015_14	Mar 17, 2023		Soil	S23-Ma0044552	X
15	QC10	Mar 17, 2023		Soil	S23-Ma0044553	X
Test Counts						15

Internal Quality Control Review and Glossary General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with the colour **blue** indicates data provided by customer that may have an impact on the results.
5. This report replaces any interim results previously issued.

Holding Times

Please refer to the most recent version of the 'Sample Preservation and Container Guide' for holding times (QS3001).
If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

% w/w:	Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples (**% w/w**)
F/fld	Airborne fibre filter loading as Fibres (**N**) per Fields counted (**n**)
F/mL	Airborne fibre reported concentration as Fibres per millilitre of air drawn over the sampler membrane (**C**)
g, kg	Mass, e.g. of whole sample (**M**) or asbestos-containing find within the sample (**m**)
g/kg	Concentration in grams per kilogram
L, mL	Volume, e.g. of air as measured in AFM (**V** = **r** x **t**)
L/min	Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (**r**)
min	Time (**t**), e.g. of air sample collection period

Calculations

Airborne Fibre Concentration: $C = \left(\frac{A}{a}\right) \times \left(\frac{N}{n}\right) \times \left(\frac{1}{r}\right) \times \left(\frac{1}{t}\right) = K \times \left(\frac{N}{n}\right) \times \left(\frac{1}{V}\right)$

Asbestos Content (as asbestos): $\%\, w/w = \frac{(m \times P_A)}{M}$

Weighted Average (of asbestos): $\%_{WA} = \sum \frac{(m \times P_A)_x}{x}$

Terms

%asbestos	Estimated percentage of asbestos in a given matrix. May be derived from knowledge or experience of the material, informed by HSG264 *Appendix 2*, else assumed to be 15% in accordance with WA DOH *Appendix 2* (**P_A**).
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded (non-friable) condition. For the purposes of the NEPM and WA DOH, ACM corresponds to material larger than 7 mm x 7 mm.
AF	Asbestos Fines. Asbestos contamination within a soil sample, as defined by WA DOH. Includes loose fibre bundles and small pieces of friable and non-friable material such as asbestos cement fragments mixed with soil. Considered under the NEPM as equivalent to “non-bonded / friable”.
AFM	Airborne Fibre Monitoring, e.g. by the MFM.
Amosite	Amosite Asbestos Detected. Amosite may also refer to Fibrous Grunerite or Brown Asbestos. Identified in accordance with AS 4964-2004.
AS	Australian Standard.
Asbestos Content (as asbestos)	Total % w/w asbestos content in asbestos-containing finds in a soil sample (**% w/w)**.
Chrysotile	Chrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in accordance with AS 4964-2004.
COC	Chain of Custody.
Crocidolite	Crocidolite Asbestos Detected. Crocidolite may also refer to Fibrous Riebeckite or Blue Asbestos. Identified in accordance with AS 4964-2004.
Dry	Sample is dried by heating prior to analysis.
DS	Dispersion Staining. Technique required for Unequivocal Identification of asbestos fibres by PLM.
FA	Fibrous Asbestos. Asbestos containing material that is wholly or in part friable, including materials with higher asbestos content with a propensity to become friable with handling, and any material that was previously non-friable and in a severely degraded condition. For the purposes of the NEPM and WA DOH, FA generally corresponds to material larger than 7 mm x 7 mm, although FA may be more difficult to visibly distinguish and may be assessed as AF.
Fibre Count	Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003
Fibre ID	Fibre Identification. Unequivocal identification of asbestos fibres according to AS 4964-2004. Includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos.
Friable	Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory’s remit to assess degree of friability.
HSG248	UK HSE HSG248, *Asbestos: The Analysts Guide*, 2nd Edition (2021).
HSG264	UK HSE HSG264, *Asbestos: The Survey Guide* (2012).
ISO (also ISO/IEC)	International Organization for Standardization / International Electrotechnical Commission.
K Factor	Microscope constant (**K**) as derived from the effective filter area of the given AFM membrane used for collecting the sample (**A**) and the projected eyepiece graticule area of the specific microscope used for the analysis (**a**).
LOR	Limit of Reporting.
MFM (also NOHSC:3003)	Membrane Filter Method. As described by the Australian Government National Occupational Health and Safety Commission, *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres*, 2nd Edition [NOHSC:3003(2005)].
NEPM (also ASC NEPM)	National Environment Protection (Assessment of Site Contamination) Measure, (2013, as amended).
Organic	Organic Fibres Detected. Organic may refer to Natural or Man-Made Polymeric Fibres. Identified in accordance with AS 4964-2004.
PCM	Phase Contrast Microscopy. As used for Fibre Counting according to the MFM.
PLM	Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 4964-2004.
Sampling	Unless otherwise stated Eurofins are not responsible for sampling equipment or the sampling process.
SMF	Synthetic Mineral Fibre Detected. SMF may also refer to Man Made Vitreous Fibres. Identified in accordance with AS 4964-2004.
SRA	Sample Receipt Advice.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix.
UK HSE HSG	United Kingdom, Health and Safety Executive, Health and Safety Guidance, publication.
UMF	Unidentified Mineral Fibre Detected. Fibrous minerals that are detected but have not been unequivocally identified by PLM with DS according the AS 4964-2004. May include (but not limited to) Actinolite, Anthophyllite or Tremolite asbestos.
WA DOH	Reference document for the NEPM. Government of Western Australia, *Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia* (updated 2021), including Appendix Four: *Laboratory analysis*
Weighted Average	Combined average % w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (**$\%_{WA}$**).

Comments

V2- new version to amend attempted to chill comment to N/A since not applicable for asbestos samples.

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	N/A
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Asbestos Counter/Identifier:

Chamath JHM Annakkage	Senior Analyst-Asbestos

Authorised by:

Sayeed Abu	Senior Analyst-Asbestos

Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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Chain of Custody

JBS&G

PROJECT NO.: 62236	LABORATORY BATCH NO.:
PROJECT NAME: Green Square Stage 3 & 4 AQ	SAMPLERS: LC, AH, MD, AS, CD
DATE NEEDED BY: STANDARD	QC LEVEL: NEPM (2013)

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) CDAGGER@jbsg.com.au; (3) AJSMITH@jbsg.com.au LCHU@JBSG.COM.AU; AHOLLAND@JBSG.COM.AU

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
AQ016_1	Soil	16/3/23		BAG			X	
2							X	
3							X	
4							X	
5							X	
6							X	
7							X	
8							X	
9							X	
10							X	
11							X	
12							X	
13							X	
14							X	
QC09							X	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: L. CHU DATE: 16/3/23	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	OF:	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

#1973249

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IANZ# 1290

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Check the COC for Project manager
Project name:	GREEN SQUARE STAGE 3+4 AQ
Project ID:	62236
Turnaround time:	5 Day
Date/Time received	Mar 16, 2023 5:10 PM
Eurofins reference	973249

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	Sample Temperature of chilled sample on the batch as recorded by Eurofins Sample Receipt : 3.2 degrees Celsius.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
✗	Split sample sent to requested external lab.
✗	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Andrew Black on phone : (+61) 2 9900 8490 or by email: AndrewBlack@eurofins.com

Results will be delivered electronically via email to Check the COC for Project manager - ursulalong@eurofins.com.

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NATA# 1261 Site# 1254	NATA# 1261 Site# 25403	NATA# 1261 Site# 18217	NATA# 1261 Site# 25466	NATA# 1261 Site# 20794	Site# 25079 & 25289

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: GREEN SQUARE STAGE 3+4 AQ
Project ID: 62236

Order No.:
Report #: 973249
Phone: 02 8245 0300
Fax:

Received: Mar 16, 2023 5:10 PM
Due: Mar 23, 2023
Priority: 5 Day
Contact Name: Check the COC for Project

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	AQ016-1	Mar 16, 2023		Soil	S23-Ma0044716	X
2	AQ016-2	Mar 16, 2023		Soil	S23-Ma0044717	X
3	AQ016-3	Mar 16, 2023		Soil	S23-Ma0044718	X
4	AQ016-4	Mar 16, 2023		Soil	S23-Ma0044719	X
5	AQ016-5	Mar 16, 2023		Soil	S23-Ma0044720	X
6	AQ016-6	Mar 16, 2023		Soil	S23-Ma0044721	X
7	AQ016-7	Mar 16, 2023		Soil	S23-Ma0044722	X
8	AQ016-8	Mar 16, 2023		Soil	S23-Ma0044723	X
9	AQ016-9	Mar 16, 2023		Soil	S23-Ma0044724	X
10	AQ016-10	Mar 16, 2023		Soil	S23-Ma0044725	X
11	AQ016-11	Mar 16, 2023		Soil	S23-Ma0044726	X
12	AQ016-12	Mar 16, 2023		Soil	S23-Ma0044727	X
13	AQ016-13	Mar 16, 2023		Soil	S23-Ma0044728	X

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NATA# 1261 Site# 1254	NATA# 1261 Site# 25403	NATA# 1261 Site# 18217	NATA# 1261 Site# 25466	NATA# 1261 Site# 20794	Site# 25079 & 25289

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NATA# 2377 Site# 2370

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IANZ# 1327	IANZ# 1290

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: GREEN SQUARE STAGE 3+4 AQ
Project ID: 62236

Order No.:
Report #: 973249
Phone: 02 8245 0300
Fax:

Received: Mar 16, 2023 5:10 PM
Due: Mar 23, 2023
Priority: 5 Day
Contact Name: Check the COC for Project

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
14	AQ016-14	Mar 16, 2023		Soil	S23-Ma0044729	X
15	QC09	Mar 16, 2023		Soil	S23-Ma0044730	X
Test Counts						15

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025–Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention:	Christopher Dagger
Report	973249-AID
Project Name	GREEN SQUARE STAGE 3+4 AQ
Project ID	62236
Received Date	Mar 16, 2023
Date Reported	Mar 24, 2023

Methodology:

Asbestos Fibre Identification	Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques. *NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.*
Unknown Mineral Fibres	Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity. *NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.*
Subsampling Soil Samples	The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed. *NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.*
Bonded asbestos-containing material (ACM)	The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination.The resultant material is then further examined in accordance with AS 4964 - 2004. *NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.*
Limit of Reporting	The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w). The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk). *NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos".This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.*

Project Name GREEN SQUARE STAGE 3+4 AQ
Project ID 62236
Date Sampled Mar 16, 2023
Report 973249-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
AQ016-1	23-Ma0044716	Mar 16, 2023	Approximate Sample 635g Sample consisted of: Brown coarse-grained sandy soil, glass, brick, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ016-2	23-Ma0044717	Mar 16, 2023	Approximate Sample 601g Sample consisted of: Brown coarse-grained sandy soil, glass, bitumen, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ016-3	23-Ma0044718	Mar 16, 2023	Approximate Sample 544g Sample consisted of: Brown coarse-grained sandy soil, bitumen, brick, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ016-4	23-Ma0044719	Mar 16, 2023	Approximate Sample 554g Sample consisted of: Brown coarse-grained soil, brick, bitumen, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ016-5	23-Ma0044720	Mar 16, 2023	Approximate Sample 568g Sample consisted of: Brown coarse- grained sandy clayey soil, brick, bitumen, coal, ceramic material and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
AQ016-6	23-Ma0044721	Mar 16, 2023	Approximate Sample 1040g Sample consisted of: Brown coarse-grained sandy soil, brick, cement, ceramic material, corroded metal and rocks	FA: Chrysotile asbestos detected in weathered fibre cement fragments. Approximate raw weight of FA = 0.016g Estimated asbestos content in FA = 0.012g* AF: Chrysotile asbestos detected in the form of loose fibres. Approximate raw weight of AF = 0.0012g* Estimated asbestos content in AF = 0.0012g* Total estimated asbestos content in FA and AF = 0.014g* Total estimated asbestos concentration in FA and AF = 0.0013% w/w* Organic fibre detected. No trace asbestos detected.
AQ016-7	23-Ma0044722	Mar 16, 2023	Approximate Sample 848g Sample consisted of: Brown coarse- grained sandy clayey soil, coal, cement, brick, rocks and debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ016-8	23-Ma0044723	Mar 16, 2023	Approximate Sample 861g Sample consisted of: Brown coarse-grained sandy soil, glass, cement, brick, coal and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ016-9	23-Ma0044724	Mar 16, 2023	Approximate Sample 965g Sample consisted of: Brown coarse-grained sandy soil, coal, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ016-10	23-Ma0044725	Mar 16, 2023	Approximate Sample 809g Sample consisted of: Brown coarse-grained sandy soil, brick, cement, corroded metal and rocks	AF: Chrysotile asbestos detected in the form of loose fibres. Approximate raw weight of AF = 0.0019g* Estimated asbestos content in AF = 0.0019g* Total estimated asbestos concentration in AF = 0.00023% w/w* No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ016-11	23-Ma0044726	Mar 16, 2023	Approximate Sample 783g Sample consisted of: Brown coarse-grained sandy soil, glass, brick, corroded metal and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ016-12	23-Ma0044727	Mar 16, 2023	Approximate Sample 788g Sample consisted of: Brown coarse-grained sandy soil, ceramic material, corroded metal, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ016-13	23-Ma0044728	Mar 16, 2023	Approximate Sample 718g Sample consisted of: Brown coarse-grained sandy soil, glass, cement, ceramic material, plastic and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
AQ016-14	23-Ma0044729	Mar 16, 2023	Approximate Sample 757g Sample consisted of: Brown coarse-grained sandy soil, glass, cement, ceramic material, corroded metal, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
QC09	23-Ma0044730	Mar 16, 2023	Approximate Sample 590g Sample consisted of: Brown coarse-grained sandy soil, glass, cement, bitumen and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	Mar 19, 2023	Indefinite

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NATA# 1261 Site# 25403

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NATA# 1261 Site# 18217

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NATA# 1261 Site# 25466

Brisbane
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Tel: +61 7 3902 4600
NATA# 1261 Site# 20794

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Tel: +61 2 4968 8448
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NSW 2000

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Project ID: 62236

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Phone: 02 8245 0300
Fax:

Received: Mar 16, 2023 5:10 PM
Due: Mar 23, 2023
Priority: 5 Day
Contact Name: Christopher Dagger

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	AQ016-1	Mar 16, 2023		Soil	S23-Ma0044716	X
2	AQ016-2	Mar 16, 2023		Soil	S23-Ma0044717	X
3	AQ016-3	Mar 16, 2023		Soil	S23-Ma0044718	X
4	AQ016-4	Mar 16, 2023		Soil	S23-Ma0044719	X
5	AQ016-5	Mar 16, 2023		Soil	S23-Ma0044720	X
6	AQ016-6	Mar 16, 2023		Soil	S23-Ma0044721	X
7	AQ016-7	Mar 16, 2023		Soil	S23-Ma0044722	X
8	AQ016-8	Mar 16, 2023		Soil	S23-Ma0044723	X
9	AQ016-9	Mar 16, 2023		Soil	S23-Ma0044724	X
10	AQ016-10	Mar 16, 2023		Soil	S23-Ma0044725	X
11	AQ016-11	Mar 16, 2023		Soil	S23-Ma0044726	X
12	AQ016-12	Mar 16, 2023		Soil	S23-Ma0044727	X
13	AQ016-13	Mar 16, 2023		Soil	S23-Ma0044728	X

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Company Name: JBS & G Australia (NSW) P/L
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Project Name: GREEN SQUARE STAGE 3+4 AQ
Project ID: 62236

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Phone: 02 8245 0300
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Received: Mar 16, 2023 5:10 PM
Due: Mar 23, 2023
Priority: 5 Day
Contact Name: Christopher Dagger

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
14	AQ016-14	Mar 16, 2023		Soil	S23-Ma0044729	X
15	QC09	Mar 16, 2023		Soil	S23-Ma0044730	X
Test Counts						15

Internal Quality Control Review and Glossary General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with the colour **blue** indicates data provided by customer that may have an impact on the results.
5. This report replaces any interim results previously issued.

Holding Times

Please refer to the most recent version of the 'Sample Preservation and Container Guide' for holding times (QS3001).
If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

% w/w:	Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples (**% w/w**)
F/fld	Airborne fibre filter loading as Fibres (**N**) per Fields counted (**n**)
F/mL	Airborne fibre reported concentration as Fibres per millilitre of air drawn over the sampler membrane (**C**)
g, kg	Mass, e.g. of whole sample (**M**) or asbestos-containing find within the sample (**m**)
g/kg	Concentration in grams per kilogram
L, mL	Volume, e.g. of air as measured in AFM (**V** = **r** x **t**)
L/min	Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (**r**)
min	Time (**t**), e.g. of air sample collection period

Calculations

Airborne Fibre Concentration: $C = \left(\frac{A}{a}\right) \times \left(\frac{N}{n}\right) \times \left(\frac{1}{r}\right) \times \left(\frac{1}{t}\right) = K \times \left(\frac{N}{n}\right) \times \left(\frac{1}{V}\right)$

Asbestos Content (as asbestos): $\%\, w/w = \frac{(m \times P_A)}{M}$

Weighted Average (of asbestos): $\%_{WA} = \sum \frac{(m \times P_A)_x}{x}$

Terms

%asbestos	Estimated percentage of asbestos in a given matrix. May be derived from knowledge or experience of the material, informed by HSG264 *Appendix 2*, else assumed to be 15% in accordance with WA DOH *Appendix 2* (**P_A**).
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded (non-friable) condition. For the purposes of the NEPM and WA DOH, ACM corresponds to material larger than 7 mm x 7 mm.
AF	Asbestos Fines. Asbestos contamination within a soil sample, as defined by WA DOH. Includes loose fibre bundles and small pieces of friable and non-friable material such as asbestos cement fragments mixed with soil. Considered under the NEPM as equivalent to “non-bonded / friable”.
AFM	Airborne Fibre Monitoring, e.g. by the MFM.
Amosite	Amosite Asbestos Detected. Amosite may also refer to Fibrous Grunerite or Brown Asbestos. Identified in accordance with AS 4964-2004.
AS	Australian Standard.
Asbestos Content (as asbestos)	Total % w/w asbestos content in asbestos-containing finds in a soil sample (**% w/w)**.
Chrysotile	Chrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in accordance with AS 4964-2004.
COC	Chain of Custody.
Crocidolite	Crocidolite Asbestos Detected. Crocidolite may also refer to Fibrous Riebeckite or Blue Asbestos. Identified in accordance with AS 4964-2004.
Dry	Sample is dried by heating prior to analysis.
DS	Dispersion Staining. Technique required for Unequivocal Identification of asbestos fibres by PLM.
FA	Fibrous Asbestos. Asbestos containing material that is wholly or in part friable, including materials with higher asbestos content with a propensity to become friable with handling, and any material that was previously non-friable and in a severely degraded condition. For the purposes of the NEPM and WA DOH, FA generally corresponds to material larger than 7 mm x 7 mm, although FA may be more difficult to visibly distinguish and may be assessed as AF.
Fibre Count	Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003
Fibre ID	Fibre Identification. Unequivocal identification of asbestos fibres according to AS 4964-2004. Includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos.
Friable	Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory’s remit to assess degree of friability.
HSG248	UK HSE HSG248, *Asbestos: The Analysts Guide*, 2nd Edition (2021).
HSG264	UK HSE HSG264, *Asbestos: The Survey Guide* (2012).
ISO (also ISO/IEC)	International Organization for Standardization / International Electrotechnical Commission.
K Factor	Microscope constant (**K**) as derived from the effective filter area of the given AFM membrane used for collecting the sample (**A**) and the projected eyepiece graticule area of the specific microscope used for the analysis (**a**).
LOR	Limit of Reporting.
MFM (also NOHSC:3003)	Membrane Filter Method. As described by the Australian Government National Occupational Health and Safety Commission, *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres*, 2nd Edition [NOHSC:3003(2005)].
NEPM (also ASC NEPM)	National Environment Protection (Assessment of Site Contamination) Measure, (2013, as amended).
Organic	Organic Fibres Detected. Organic may refer to Natural or Man-Made Polymeric Fibres. Identified in accordance with AS 4964-2004.
PCM	Phase Contrast Microscopy. As used for Fibre Counting according to the MFM.
PLM	Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 4964-2004.
Sampling	Unless otherwise stated Eurofins are not responsible for sampling equipment or the sampling process.
SMF	Synthetic Mineral Fibre Detected. SMF may also refer to Man Made Vitreous Fibres. Identified in accordance with AS 4964-2004.
SRA	Sample Receipt Advice.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix.
UK HSE HSG	United Kingdom, Health and Safety Executive, Health and Safety Guidance, publication.
UMF	Unidentified Mineral Fibre Detected. Fibrous minerals that are detected but have not been unequivocally identified by PLM with DS according the AS 4964-2004. May include (but not limited to) Actinolite, Anthophyllite or Tremolite asbestos.
WA DOH	Reference document for the NEPM. Government of Western Australia, *Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia* (updated 2021), including Appendix Four: *Laboratory analysis*
Weighted Average	Combined average % w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (**$\%_{WA}$**).

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Asbestos Counter/Identifier:

Laxman Dias	Senior Analyst-Asbestos

Authorised by:

Sayeed Abu	Senior Analyst-Asbestos

Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

Eurofins shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

Chain of Custody

JBS&G

J.: 62236

CT NAME: Green Square Stage 3 + 4

DATE NEEDED BY: Standard

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) cdagger@jbsg.com.au; (3) ajsmith@jbsg.com.au aholland@jbsg.com.au, LCHU@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:

SAMPLERS: Amy Holland + Martine D

QC LEVEL: NEPM (2013)

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
AQ014-01	Soil	16/3/23		bag		X		X	
-02						X		X	
-03						X		X	
-04						X		X	
-05						X		X	
-06						X		X	
-07						X		X	
-08						X		X	
-09						X		X	
-10						X		X	
-11						X		X	
-12						X		X	
-13						X		X	
-14						X		X	
QC08						X			

RELINQUISHED BY:
NAME: Amy Holland DATE: 16/3/23
OF: JBS&G
NAME: DATE:
OF:

METHOD OF SHIPMENT:
CONSIGNMENT NOTE NO.
TRANSPORT CO.
CONSIGNMENT NOTE NO.
TRANSPORT CO

RECEIVED BY:
NAME: DATE: 16/3
OF:
NAME: DATE:
OF:

FOR RECEIVING LAB USE ONLY:
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP 3.2 deg C
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

#97350

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Tel: +61 3 8564 5000	Tel: +61 3 8564 5000	Tel: +61 2 9900 8400	Tel: +61 2 6113 8091	Tel: +61 7 3902 4600	NATA# 1261
NATA# 1261 Site# 1254	NATA# 1261 Site# 25403	NATA# 1261 Site# 18217	NATA# 1261 Site# 25466	NATA# 1261 Site# 20794	Site# 25079 & 25289

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Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Check the COC for Project manager
Project name:	GREEN SQUARE STAGE 3+4
Project ID:	62236
Turnaround time:	5 Day
Date/Time received	Mar 16, 2023 5:10 PM
Eurofins reference	973250

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	Sample Temperature of chilled sample on the batch as recorded by Eurofins Sample Receipt : 3.9 degrees Celsius.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
✗	Split sample sent to requested external lab.
✗	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Andrew Black on phone : (+61) 2 9900 8490 or by email: AndrewBlack@eurofins.com

Results will be delivered electronically via email to Check the COC for Project manager - ursulalong@eurofins.com.

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
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Tel: +61 3 8564 5000	Tel: +61 3 8564 5000	Tel: +61 2 9900 8400	Tel: +61 2 6113 8091	Tel: +61 7 3902 4600	NATA# 1261
NATA# 1261 Site# 1254	NATA# 1261 Site# 25403	NATA# 1261 Site# 18217	NATA# 1261 Site# 25466	NATA# 1261 Site# 20794	Site# 25079 & 25289

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NATA# 2377 Site# 2370

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IANZ# 1327	IANZ# 1290

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: GREEN SQUARE STAGE 3+4
Project ID: 62236

Order No.:
Report #: 973250
Phone: 02 8245 0300
Fax:

Received: Mar 16, 2023 5:10 PM
Due: Mar 23, 2023
Priority: 5 Day
Contact Name: Check the COC for Project

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	AQ014-01	Mar 16, 2023		Soil	S23-Ma0044731	X
2	AQ014-02	Mar 16, 2023		Soil	S23-Ma0044732	X
3	AQ014-03	Mar 16, 2023		Soil	S23-Ma0044733	X
4	AQ014-04	Mar 16, 2023		Soil	S23-Ma0044734	X
5	AQ014-05	Mar 16, 2023		Soil	S23-Ma0044735	X
6	AQ014-06	Mar 16, 2023		Soil	S23-Ma0044736	X
7	AQ014-07	Mar 16, 2023		Soil	S23-Ma0044737	X
8	AQ014-08	Mar 16, 2023		Soil	S23-Ma0044738	X
9	AQ014-09	Mar 16, 2023		Soil	S23-Ma0044739	X
10	AQ014-10	Mar 16, 2023		Soil	S23-Ma0044740	X
11	AQ014-11	Mar 16, 2023		Soil	S23-Ma0044741	X
12	AQ014-12	Mar 16, 2023		Soil	S23-Ma0044742	X
13	AQ014-13	Mar 16, 2023		Soil	S23-Ma0044743	X

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: GREEN SQUARE STAGE 3+4
Project ID: 62236

Order No.:
Report #: 973250
Phone: 02 8245 0300
Fax:

Received: Mar 16, 2023 5:10 PM
Due: Mar 23, 2023
Priority: 5 Day
Contact Name: Check the COC for Project

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
14	AQ014-14	Mar 16, 2023		Soil	S23-Ma0044744	X
15	QC08	Mar 16, 2023		Soil	S23-Ma0044745	X
Test Counts						15

Certificate of Analysis

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025–Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention:	Christopher Dagger
Report	973250-AID
Project Name	GREEN SQUARE STAGE 3+4
Project ID	62236
Received Date	Mar 16, 2023
Date Reported	Mar 24, 2023

Methodology:

Asbestos Fibre Identification	Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques. *NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.*
Unknown Mineral Fibres	Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity. *NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.*
Subsampling Soil Samples	The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed. *NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.*
Bonded asbestos-containing material (ACM)	The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination.The resultant material is then further examined in accordance with AS 4964 - 2004. *NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.*
Limit of Reporting	The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w). The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk). *NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos".This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.*

Project Name GREEN SQUARE STAGE 3+4
Project ID 62236
Date Sampled Mar 16, 2023
Report 973250-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
AQ014-01	23-Ma0044731	Mar 16, 2023	Approximate Sample 681g Sample consisted of: Brown coarse-grained sandy soil, glass, bitumen and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ014-02	23-Ma0044732	Mar 16, 2023	Approximate Sample 678g Sample consisted of: Brown coarse-grained sandy soil, glass, coal, cement, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ014-03	23-Ma0044733	Mar 16, 2023	Approximate Sample 805g Sample consisted of: Brown coarse-grained sandy soil, ceramic material, plaster, cement, brick, glass and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ014-04	23-Ma0044734	Mar 16, 2023	Approximate Sample 770g Sample consisted of: Brown coarse- grained sandy clayey soil, cement, coal, plaster and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ014-05	23-Ma0044735	Mar 16, 2023	Approximate Sample 868g Sample consisted of: Brown fine-grained clayey soil, cement, glass, plaster, ceramic material and rocks	AF: Chrysotile asbestos detected in the form of loose fibre bundles. Approximate raw weight of AF = 0.00080g* Estimated asbestos content in AF = 0.00080g* Total estimated asbestos concentration in AF = 0.000092% w/w* No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ014-06	23-Ma0044736	Mar 16, 2023	Approximate Sample 919g Sample consisted of: Brown fine-grained clayey soil, cement, glass, coal, ceramic material, bitumen , brick, corroded metal, rocks and debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
AQ014-07	23-Ma0044737	Mar 16, 2023	Approximate Sample 759g Sample consisted of: Brown fine-grained clayey soil, ceramic material, cement, glass, corroded metal and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ014-08	23-Ma0044738	Mar 16, 2023	Approximate Sample 719g Sample consisted of: Brown fine-grained clayey soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ014-09	23-Ma0044739	Mar 16, 2023	Approximate Sample 660g Sample consisted of: Brown fine-grained clayey soil, glass and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ014-10	23-Ma0044740	Mar 16, 2023	Approximate Sample 505g Sample consisted of: Brown fine-grained clayey soil, coal, cement, rocks and debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ014-11	23-Ma0044741	Mar 16, 2023	Approximate Sample 790g Sample consisted of: Brown fine-grained clayey soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ014-12	23-Ma0044742	Mar 16, 2023	Approximate Sample 532g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ014-13	23-Ma0044743	Mar 16, 2023	Approximate Sample 731g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ014-14	23-Ma0044744	Mar 16, 2023	Approximate Sample 766g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
QC08	23-Ma0044745	Mar 16, 2023	Approximate Sample 760g Sample consisted of: Brown fine-grained clayey soil, ceramic material, plaster, brick, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	Mar 19, 2023	Indefinite

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Project ID: 62236

Order No.:
Report #: 973250
Phone: 02 8245 0300
Fax:

Received: Mar 16, 2023 5:10 PM
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Priority: 5 Day
Contact Name: Christopher Dagger

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
External Laboratory						
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11	AQ014-11	Mar 16, 2023		Soil	S23-Ma0044741	X
12	AQ014-12	Mar 16, 2023		Soil	S23-Ma0044742	X
13	AQ014-13	Mar 16, 2023		Soil	S23-Ma0044743	X

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Sydney Laboratory - NATA # 1261 Site # 18217						X
14	AQ014-14	Mar 16, 2023		Soil	S23-Ma0044744	X
15	QC08	Mar 16, 2023		Soil	S23-Ma0044745	X
Test Counts						15

Internal Quality Control Review and Glossary General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with the colour **blue** indicates data provided by customer that may have an impact on the results.
5. This report replaces any interim results previously issued.

Holding Times

Please refer to the most recent version of the 'Sample Preservation and Container Guide' for holding times (QS3001).
If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

% w/w:	Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples (**% w/w**)
F/fld	Airborne fibre filter loading as Fibres (**N**) per Fields counted (**n**)
F/mL	Airborne fibre reported concentration as Fibres per millilitre of air drawn over the sampler membrane (**C**)
g, kg	Mass, e.g. of whole sample (**M**) or asbestos-containing find within the sample (**m**)
g/kg	Concentration in grams per kilogram
L, mL	Volume, e.g. of air as measured in AFM (**V** = **r** x **t**)
L/min	Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (**r**)
min	Time (**t**), e.g. of air sample collection period

Calculations

Airborne Fibre Concentration: $C = \left(\frac{A}{a}\right) \times \left(\frac{N}{n}\right) \times \left(\frac{1}{r}\right) \times \left(\frac{1}{t}\right) = K \times \left(\frac{N}{n}\right) \times \left(\frac{1}{V}\right)$

Asbestos Content (as asbestos): $\%\, w/w = \frac{(m \times P_A)}{M}$

Weighted Average (of asbestos): $\%_{WA} = \sum \frac{(m \times P_A)_x}{x}$

Terms

%asbestos	Estimated percentage of asbestos in a given matrix. May be derived from knowledge or experience of the material, informed by HSG264 *Appendix 2*, else assumed to be 15% in accordance with WA DOH *Appendix 2* (**P_A**).
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded (non-friable) condition. For the purposes of the NEPM and WA DOH, ACM corresponds to material larger than 7 mm x 7 mm.
AF	Asbestos Fines. Asbestos contamination within a soil sample, as defined by WA DOH. Includes loose fibre bundles and small pieces of friable and non-friable material such as asbestos cement fragments mixed with soil. Considered under the NEPM as equivalent to “non-bonded / friable”.
AFM	Airborne Fibre Monitoring, e.g. by the MFM.
Amosite	Amosite Asbestos Detected. Amosite may also refer to Fibrous Grunerite or Brown Asbestos. Identified in accordance with AS 4964-2004.
AS	Australian Standard.
Asbestos Content (as asbestos)	Total % w/w asbestos content in asbestos-containing finds in a soil sample (**% w/w)**.
Chrysotile	Chrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in accordance with AS 4964-2004.
COC	Chain of Custody.
Crocidolite	Crocidolite Asbestos Detected. Crocidolite may also refer to Fibrous Riebeckite or Blue Asbestos. Identified in accordance with AS 4964-2004.
Dry	Sample is dried by heating prior to analysis.
DS	Dispersion Staining. Technique required for Unequivocal Identification of asbestos fibres by PLM.
FA	Fibrous Asbestos. Asbestos containing material that is wholly or in part friable, including materials with higher asbestos content with a propensity to become friable with handling, and any material that was previously non-friable and in a severely degraded condition. For the purposes of the NEPM and WA DOH, FA generally corresponds to material larger than 7 mm x 7 mm, although FA may be more difficult to visibly distinguish and may be assessed as AF.
Fibre Count	Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003
Fibre ID	Fibre Identification. Unequivocal identification of asbestos fibres according to AS 4964-2004. Includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos.
Friable	Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory’s remit to assess degree of friability.
HSG248	UK HSE HSG248, *Asbestos: The Analysts Guide*, 2nd Edition (2021).
HSG264	UK HSE HSG264, *Asbestos: The Survey Guide* (2012).
ISO (also ISO/IEC)	International Organization for Standardization / International Electrotechnical Commission.
K Factor	Microscope constant (**K**) as derived from the effective filter area of the given AFM membrane used for collecting the sample (**A**) and the projected eyepiece graticule area of the specific microscope used for the analysis (**a**).
LOR	Limit of Reporting.
MFM (also NOHSC:3003)	Membrane Filter Method. As described by the Australian Government National Occupational Health and Safety Commission, *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres*, 2nd Edition [NOHSC:3003(2005)].
NEPM (also ASC NEPM)	National Environment Protection (Assessment of Site Contamination) Measure, (2013, as amended).
Organic	Organic Fibres Detected. Organic may refer to Natural or Man-Made Polymeric Fibres. Identified in accordance with AS 4964-2004.
PCM	Phase Contrast Microscopy. As used for Fibre Counting according to the MFM.
PLM	Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 4964-2004.
Sampling	Unless otherwise stated Eurofins are not responsible for sampling equipment or the sampling process.
SMF	Synthetic Mineral Fibre Detected. SMF may also refer to Man Made Vitreous Fibres. Identified in accordance with AS 4964-2004.
SRA	Sample Receipt Advice.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix.
UK HSE HSG	United Kingdom, Health and Safety Executive, Health and Safety Guidance, publication.
UMF	Unidentified Mineral Fibre Detected. Fibrous minerals that are detected but have not been unequivocally identified by PLM with DS according the AS 4964-2004. May include (but not limited to) Actinolite, Anthophyllite or Tremolite asbestos.
WA DOH	Reference document for the NEPM. Government of Western Australia, *Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia* (updated 2021), including Appendix Four: *Laboratory analysis*
Weighted Average	Combined average % w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (**$\%_{WA}$**).

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Asbestos Counter/Identifier:

Laxman Dias	Senior Analyst-Asbestos

Authorised by:

Sayeed Abu	Senior Analyst-Asbestos

Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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Chain of Custody

JBS&G

PROJECT NO.: 62236
PROJECT NAME: Green Square Stage 3 & 4 AQ
DATE NEEDED BY: STANDARD
LABORATORY BATCH NO.:
SAMPLERS: LC, AH, MD, AS, CD
QC LEVEL: NEPM (2013)
PHONE: Sydney 02 8245 0300 | Perth 08 6488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) CDAGGER@jbsg.com.au; (3) ASMITH@jbsg.com.au LCHU@JBSG.COM.AU; AHOLLAND@JBSG.COM.AU
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
AQ009_01	SOIL	16/3/23		BAG			X	
2							X	
3							X	
4							X	
5							X	
6							X	
7							X	
8							X	
9							X	
10							X	
11							X	
12							X	
13							X	
14							X	
QBC 06							X	

RELINQUISHED BY:
NAME: LCHU DATE: 16/3/23
OF: JBS&G

METHOD OF SHIPMENT:
CONSIGNMENT NOTE NO.
TRANSPORT CO.

RECEIVED BY:
NAME:
DATE: 16/3 5:10 pm
OF: envey

FOR RECEIVING LAB USE ONLY:
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP 32.8 deg C

NAME: DATE:
OF:

CONSIGNMENT NOTE NO.
TRANSPORT CO

NAME: DATE:
OF:

COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

ST#973252

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NATA# 1261 Site# 25403

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Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Check the COC for Project manager
Project name:	GREEN SQUARE STAGE 3+4
Project ID:	62236
Turnaround time:	5 Day
Date/Time received	Mar 16, 2023 5:10 PM
Eurofins reference	973252

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	Sample Temperature of chilled sample on the batch as recorded by Eurofins Sample Receipt : 3.2 degrees Celsius.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
✗	Split sample sent to requested external lab.
✗	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Andrew Black on phone : (+61) 2 9900 8490 or by email: AndrewBlack@eurofins.com

Results will be delivered electronically via email to Check the COC for Project manager - ursulalong@eurofins.com.

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

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Tel: +61 3 8564 5000	Tel: +61 3 8564 5000	Tel: +61 2 9900 8400	Tel: +61 2 6113 8091	Tel: +61 7 3902 4600	NATA# 1261
NATA# 1261 Site# 1254	NATA# 1261 Site# 25403	NATA# 1261 Site# 18217	NATA# 1261 Site# 25466	NATA# 1261 Site# 20794	Site# 25079 & 25289

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
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NSW 2000

Project Name: GREEN SQUARE STAGE 3+4
Project ID: 62236

Order No.:
Report #: 973252
Phone: 02 8245 0300
Fax:

Received: Mar 16, 2023 5:10 PM
Due: Mar 23, 2023
Priority: 5 Day
Contact Name: Check the COC for Project

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	AQ009-1	Mar 16, 2023		Soil	S23-Ma0044748	X
2	AQ009-2	Mar 16, 2023		Soil	S23-Ma0044749	X
3	AQ009-3	Mar 16, 2023		Soil	S23-Ma0044750	X
4	AQ009-4	Mar 16, 2023		Soil	S23-Ma0044751	X
5	AQ009-5	Mar 16, 2023		Soil	S23-Ma0044752	X
6	AQ009-6	Mar 16, 2023		Soil	S23-Ma0044753	X
7	AQ009-7	Mar 16, 2023		Soil	S23-Ma0044754	X
8	AQ009-8	Mar 16, 2023		Soil	S23-Ma0044755	X
9	AQ009-9	Mar 16, 2023		Soil	S23-Ma0044756	X
10	AQ009-10	Mar 16, 2023		Soil	S23-Ma0044757	X
11	AQ009-11	Mar 16, 2023		Soil	S23-Ma0044758	X
12	AQ009-12	Mar 16, 2023		Soil	S23-Ma0044759	X
13	AQ009-13	Mar 16, 2023		Soil	S23-Ma0044760	X

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NATA# 1261 Site# 1254	NATA# 1261 Site# 25403	NATA# 1261 Site# 18217	NATA# 1261 Site# 25466	NATA# 1261 Site# 20794	Site# 25079 & 25289

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IANZ# 1327	IANZ# 1290

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: GREEN SQUARE STAGE 3+4
Project ID: 62236

Order No.:
Report #: 973252
Phone: 02 8245 0300
Fax:

Received: Mar 16, 2023 5:10 PM
Due: Mar 23, 2023
Priority: 5 Day
Contact Name: Check the COC for Project

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
14	AQ009-14	Mar 16, 2023		Soil	S23-Ma0044761	X
15	QC06	Mar 16, 2023		Soil	S23-Ma0044762	X
Test Counts						15

Certificate of Analysis

Environment Testing

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025–Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention:	Christopher Dagger
Report	973252-AID
Project Name	GREEN SQUARE STAGE 3+4
Project ID	62236
Received Date	Mar 16, 2023
Date Reported	Mar 24, 2023

Methodology:

Asbestos Fibre Identification	Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques. *NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.*
Unknown Mineral Fibres	Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity. *NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.*
Subsampling Soil Samples	The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed. *NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.*
Bonded asbestos-containing material (ACM)	The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination.The resultant material is then further examined in accordance with AS 4964 - 2004. *NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.*
Limit of Reporting	The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w). The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk). *NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos".This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.*

Project Name GREEN SQUARE STAGE 3+4
Project ID 62236
Date Sampled Mar 16, 2023
Report 973252-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
AQ009-1	23-Ma0044748	Mar 16, 2023	Approximate Sample 658g Sample consisted of: Brown coarse-grained soil, bitumen, plaster, cement and rocks	FA: Chrysotile asbestos detected in soft plaster material. Approximate raw weight of FA = 0.0080g Estimated asbestos content in FA = 0.0048g* AF: Chrysotile asbestos detected in the form of loose fibres. Approximate raw weight of AF = 0.00060g* Estimated asbestos content in AF = 0.00060g* Total estimated asbestos content in FA and AF = 0.0054g* Total estimated asbestos concentration in FA and AF = 0.00082% w/w* No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ009-2	23-Ma0044749	Mar 16, 2023	Approximate Sample 655g Sample consisted of: Brown coarse-grained sandy soil, corroded metal, coal and rocks	AF: Chrysotile asbestos detected in the form of loose fibres. Approximate raw weight of AF = 0.00080g* Estimated asbestos content in AF = 0.00080g* Total estimated asbestos concentration in AF = 0.00012% w/w* No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
AQ009-3	23-Ma0044750	Mar 16, 2023	Approximate Sample 617g Sample consisted of: Brown fine-grained clayey soil, brick, bitumen, coal and rocks	AF: Chrysotile asbestos detected in the form of loose fibres. Approximate raw weight of AF = 0.00060g* Estimated asbestos content in AF = 0.00060g* Total estimated asbestos concentration in AF = 0.000097% w/w* No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ009-4	23-Ma0044751	Mar 16, 2023	Approximate Sample 809g Sample consisted of: Brown coarse- grained sandy clayey soil, brick, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ009-5	23-Ma0044752	Mar 16, 2023	Approximate Sample 985.2g Sample consisted of: Brown fine-grained clayey soil, cement, coal and rocks	ACM: Chrysotile asbestos detected in fibre cement fragment. Approximate raw weight of ACM = 2.7g Total estimated asbestos content in ACM = 0.14g* Total estimated asbestos concentration in ACM = 0.014% w/w* AF: Chrysotile asbestos detected in the form of loose fibres. Approximate raw weight of AF = 0.0013g* Estimated asbestos content in AF = 0.0013g* Total estimated asbestos concentration in AF = 0.00013% w/w* No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ009-6	23-Ma0044753	Mar 16, 2023	Approximate Sample 892g Sample consisted of: Brown fine-grained clayey soil, brick, cement, coal and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ009-7	23-Ma0044754	Mar 16, 2023	Approximate Sample 903g Sample consisted of: Brown fine-grained clayey soil, coal, brick, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ009-8	23-Ma0044755	Mar 16, 2023	Approximate Sample 915g Sample consisted of: Brown fine-grained clayey soil, cement, metals, brick and rocks	AF: Chrysotile asbestos detected in the form of loose fibres. Approximate raw weight of AF = 0.0046g* Estimated asbestos content in AF = 0.0046g* Total estimated asbestos concentration in AF = 0.00050% w/w* No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ009-9	23-Ma0044756	Mar 16, 2023	Approximate Sample 864g Sample consisted of: Brown fine-grained clayey soil, brick, bitumen and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
AQ009-10	23-Ma0044757	Mar 16, 2023	Approximate Sample 801g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ009-11	23-Ma0044758	Mar 16, 2023	Approximate Sample 850g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ009-12	23-Ma0044759	Mar 16, 2023	Approximate Sample 925g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ009-13	23-Ma0044760	Mar 16, 2023	Approximate Sample 870g Sample consisted of: Brown fine-grained clayey soil, brick, glass and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ009-14	23-Ma0044761	Mar 16, 2023	Approximate Sample 784g Sample consisted of: Brown fine-grained clayey soil, plaster, plastic and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
QC06	23-Ma0044762	Mar 16, 2023	Approximate Sample 501g Sample consisted of: Brown coarse-grained sandy soil, cement, coal and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	Mar 19, 2023	Indefinite

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
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NSW 2000

Project Name: GREEN SQUARE STAGE 3+4
Project ID: 62236

Order No.:
Report #: 973252
Phone: 02 8245 0300
Fax:

Received: Mar 16, 2023 5:10 PM
Due: Mar 23, 2023
Priority: 5 Day
Contact Name: Christopher Dagger

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	AQ009-1	Mar 16, 2023		Soil	S23-Ma0044748	X
2	AQ009-2	Mar 16, 2023		Soil	S23-Ma0044749	X
3	AQ009-3	Mar 16, 2023		Soil	S23-Ma0044750	X
4	AQ009-4	Mar 16, 2023		Soil	S23-Ma0044751	X
5	AQ009-5	Mar 16, 2023		Soil	S23-Ma0044752	X
6	AQ009-6	Mar 16, 2023		Soil	S23-Ma0044753	X
7	AQ009-7	Mar 16, 2023		Soil	S23-Ma0044754	X
8	AQ009-8	Mar 16, 2023		Soil	S23-Ma0044755	X
9	AQ009-9	Mar 16, 2023		Soil	S23-Ma0044756	X
10	AQ009-10	Mar 16, 2023		Soil	S23-Ma0044757	X
11	AQ009-11	Mar 16, 2023		Soil	S23-Ma0044758	X
12	AQ009-12	Mar 16, 2023		Soil	S23-Ma0044759	X
13	AQ009-13	Mar 16, 2023		Soil	S23-Ma0044760	X

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Project Name: GREEN SQUARE STAGE 3+4
Project ID: 62236

Order No.:
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Phone: 02 8245 0300
Fax:

Received: Mar 16, 2023 5:10 PM
Due: Mar 23, 2023
Priority: 5 Day
Contact Name: Christopher Dagger

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
14	AQ009-14	Mar 16, 2023		Soil	S23-Ma0044761	X
15	QC06	Mar 16, 2023		Soil	S23-Ma0044762	X
Test Counts						15

Internal Quality Control Review and Glossary General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with the colour **blue** indicates data provided by customer that may have an impact on the results.
5. This report replaces any interim results previously issued.

Holding Times

Please refer to the most recent version of the 'Sample Preservation and Container Guide' for holding times (QS3001).
If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

% w/w:	Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples (**% w/w**)
F/fld	Airborne fibre filter loading as Fibres (**N**) per Fields counted (**n**)
F/mL	Airborne fibre reported concentration as Fibres per millilitre of air drawn over the sampler membrane (**C**)
g, kg	Mass, e.g. of whole sample (**M**) or asbestos-containing find within the sample (**m**)
g/kg	Concentration in grams per kilogram
L, mL	Volume, e.g. of air as measured in AFM (**V** = **r** x **t**)
L/min	Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (**r**)
min	Time (**t**), e.g. of air sample collection period

Calculations

Airborne Fibre Concentration: $C = \left(\frac{A}{a}\right) \times \left(\frac{N}{n}\right) \times \left(\frac{1}{r}\right) \times \left(\frac{1}{t}\right) = K \times \left(\frac{N}{n}\right) \times \left(\frac{1}{V}\right)$

Asbestos Content (as asbestos): $\%\, w/w = \frac{(m \times P_A)}{M}$

Weighted Average (of asbestos): $\%_{WA} = \sum \frac{(m \times P_A)_x}{x}$

Terms

%asbestos	Estimated percentage of asbestos in a given matrix. May be derived from knowledge or experience of the material, informed by HSG264 *Appendix 2*, else assumed to be 15% in accordance with WA DOH *Appendix 2* (**P_A**).
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded (non-friable) condition. For the purposes of the NEPM and WA DOH, ACM corresponds to material larger than 7 mm x 7 mm.
AF	Asbestos Fines. Asbestos contamination within a soil sample, as defined by WA DOH. Includes loose fibre bundles and small pieces of friable and non-friable material such as asbestos cement fragments mixed with soil. Considered under the NEPM as equivalent to “non-bonded / friable”.
AFM	Airborne Fibre Monitoring, e.g. by the MFM.
Amosite	Amosite Asbestos Detected. Amosite may also refer to Fibrous Grunerite or Brown Asbestos. Identified in accordance with AS 4964-2004.
AS	Australian Standard.
Asbestos Content (as asbestos)	Total % w/w asbestos content in asbestos-containing finds in a soil sample (**% w/w)**.
Chrysotile	Chrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in accordance with AS 4964-2004.
COC	Chain of Custody.
Crocidolite	Crocidolite Asbestos Detected. Crocidolite may also refer to Fibrous Riebeckite or Blue Asbestos. Identified in accordance with AS 4964-2004.
Dry	Sample is dried by heating prior to analysis.
DS	Dispersion Staining. Technique required for Unequivocal Identification of asbestos fibres by PLM.
FA	Fibrous Asbestos. Asbestos containing material that is wholly or in part friable, including materials with higher asbestos content with a propensity to become friable with handling, and any material that was previously non-friable and in a severely degraded condition. For the purposes of the NEPM and WA DOH, FA generally corresponds to material larger than 7 mm x 7 mm, although FA may be more difficult to visibly distinguish and may be assessed as AF.
Fibre Count	Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003
Fibre ID	Fibre Identification. Unequivocal identification of asbestos fibres according to AS 4964-2004. Includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos.
Friable	Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory’s remit to assess degree of friability.
HSG248	UK HSE HSG248, *Asbestos: The Analysts Guide*, 2nd Edition (2021).
HSG264	UK HSE HSG264, *Asbestos: The Survey Guide* (2012).
ISO (also ISO/IEC)	International Organization for Standardization / International Electrotechnical Commission.
K Factor	Microscope constant (**K**) as derived from the effective filter area of the given AFM membrane used for collecting the sample (**A**) and the projected eyepiece graticule area of the specific microscope used for the analysis (**a**).
LOR	Limit of Reporting.
MFM (also NOHSC:3003)	Membrane Filter Method. As described by the Australian Government National Occupational Health and Safety Commission, *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres*, 2nd Edition [NOHSC:3003(2005)].
NEPM (also ASC NEPM)	National Environment Protection (Assessment of Site Contamination) Measure, (2013, as amended).
Organic	Organic Fibres Detected. Organic may refer to Natural or Man-Made Polymeric Fibres. Identified in accordance with AS 4964-2004.
PCM	Phase Contrast Microscopy. As used for Fibre Counting according to the MFM.
PLM	Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 4964-2004.
Sampling	Unless otherwise stated Eurofins are not responsible for sampling equipment or the sampling process.
SMF	Synthetic Mineral Fibre Detected. SMF may also refer to Man Made Vitreous Fibres. Identified in accordance with AS 4964-2004.
SRA	Sample Receipt Advice.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix.
UK HSE HSG	United Kingdom, Health and Safety Executive, Health and Safety Guidance, publication.
UMF	Unidentified Mineral Fibre Detected. Fibrous minerals that are detected but have not been unequivocally identified by PLM with DS according the AS 4964-2004. May include (but not limited to) Actinolite, Anthophyllite or Tremolite asbestos.
WA DOH	Reference document for the NEPM. Government of Western Australia, *Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia* (updated 2021), including Appendix Four: *Laboratory analysis*
Weighted Average	Combined average % w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (**$\%_{WA}$**).

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Asbestos Counter/Identifier:

Laxman Dias	Senior Analyst-Asbestos

Authorised by:

Chamath JHM Annakkage	Senior Analyst-Asbestos

Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

Eurofins shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

Chain of Custody

JBS&G

PROJECT NO.: 62230	LABORATORY BATCH NO.: 473322
PROJECT NAME: Green Square Stage 3 & 4	SAMPLERS: LAYMOND CHU, AARON SMITH
DATE NEEDED BY: STANDARD	QC LEVEL: NEPM (2013)

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) CDAGGER.....@jbsg.com.au; (3) .....AJSMITH.....@jbsg.com.au LCHU@JBSG.COM.AU ; AHOLLAND@JBSG.COM.AU

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
AQ0182 - 1	SOIL	17/3/23		BAG.			X	
2							X	
3							X	
4							X	
5							X	
6							X	
7							X	
8							X	
9							X	
10							X	
11							X	
12							X	
13							X	
14							X	
QC11							X	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: L. CHU DATE: 17/3/23	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE:	
		OF:	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

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Tel: +61 3 8564 5000	Tel: +61 3 8564 5000	Tel: +61 2 9900 8400	Tel: +61 2 6113 8091	Tel: +61 7 3902 4600	NATA# 1261
NATA# 1261 Site# 1254	NATA# 1261 Site# 25403	NATA# 1261 Site# 18217	NATA# 1261 Site# 25466	NATA# 1261 Site# 20794	Site# 25079 & 25289

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Auckland 1061	Christchurch 7675
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IANZ# 1327	IANZ# 1290

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Christopher Dagger
Project name:	GREEN SQUARE STAGE 3 & 4
Project ID:	62236
Turnaround time:	5 Day
Date/Time received	Mar 17, 2023 5:10 PM
Eurofins reference	973322

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
N/A	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
✗	Split sample sent to requested external lab.
✗	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Andrew Black on phone : (+61) 2 9900 8490 or by email: AndrewBlack@eurofins.com

Results will be delivered electronically via email to Christopher Dagger - cdagger@jbsg.com.au.

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

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IANZ# 1327	IANZ# 1290

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: GREEN SQUARE STAGE 3 & 4
Project ID: 62236

Order No.:
Report #: 973322
Phone: 02 8245 0300
Fax:

Received: Mar 17, 2023 5:10 PM
Due: Mar 24, 2023
Priority: 5 Day
Contact Name: Christopher Dagger

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	AQ012_1	Mar 17, 2023		Soil	S23-Ma0045200	X
2	AQ012_2	Mar 17, 2023		Soil	S23-Ma0045201	X
3	AQ012_3	Mar 17, 2023		Soil	S23-Ma0045202	X
4	AQ012_4	Mar 17, 2023		Soil	S23-Ma0045203	X
5	AQ012_5	Mar 17, 2023		Soil	S23-Ma0045204	X
6	AQ012_6	Mar 17, 2023		Soil	S23-Ma0045205	X
7	AQ012_7	Mar 17, 2023		Soil	S23-Ma0045206	X
8	AQ012_8	Mar 17, 2023		Soil	S23-Ma0045207	X
9	AQ012_9	Mar 17, 2023		Soil	S23-Ma0045208	X
10	AQ012_10	Mar 17, 2023		Soil	S23-Ma0045209	X
11	AQ012_11	Mar 17, 2023		Soil	S23-Ma0045210	X
12	AQ012_12	Mar 17, 2023		Soil	S23-Ma0045211	X
13	AQ012_13	Mar 17, 2023		Soil	S23-Ma0045212	X

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IANZ# 1327	IANZ# 1290

Company Name: JBS & G Australia (NSW) P/L
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Project Name: GREEN SQUARE STAGE 3 & 4
Project ID: 62236

Order No.:
Report #: 973322
Phone: 02 8245 0300
Fax:

Received: Mar 17, 2023 5:10 PM
Due: Mar 24, 2023
Priority: 5 Day
Contact Name: Christopher Dagger

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
14	AQ012_14	Mar 17, 2023		Soil	S23-Ma0045213	X
15	QC11	Mar 17, 2023		Soil	S23-Ma0045214	X
Test Counts						15

Certificate of Analysis

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025–Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention:	Christopher Dagger
Report	973322-AID
Project Name	GREEN SQUARE STAGE 3 & 4
Project ID	62236
Received Date	Mar 17, 2023
Date Reported	Mar 24, 2023

Methodology:

Asbestos Fibre Identification	Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques. *NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.*
Unknown Mineral Fibres	Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity. *NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.*
Subsampling Soil Samples	The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed. *NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.*
Bonded asbestos-containing material (ACM)	The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination.The resultant material is then further examined in accordance with AS 4964 - 2004. *NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.*
Limit of Reporting	The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w). The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk). *NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos".This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.*

Project Name GREEN SQUARE STAGE 3 & 4
Project ID 62236
Date Sampled Mar 17, 2023
Report 973322-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
AQ012_1	23-Ma0045200	Mar 17, 2023	Approximate Sample 696g Sample consisted of: Brown fine-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ012_2	23-Ma0045201	Mar 17, 2023	Approximate Sample 560g Sample consisted of: Brown fine-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ012_3	23-Ma0045202	Mar 17, 2023	Approximate Sample 628g Sample consisted of: Brown fine-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ012_4	23-Ma0045203	Mar 17, 2023	Approximate Sample 619g Sample consisted of: Brown fine-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ012_5	23-Ma0045204	Mar 17, 2023	Approximate Sample 648g Sample consisted of: Brown fine-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ012_6	23-Ma0045205	Mar 17, 2023	Approximate Sample 782g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
AQ012_7	23-Ma0045206	Mar 17, 2023	Approximate Sample 787g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	AF: Chrysotile asbestos detected in the form of loose fibre bundles. Approximate raw weight of AF = 0.00020g* Estimated asbestos content in AF = 0.00020g* Total estimated asbestos concentration in AF = 0.000025% w/w* No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ012_8	23-Ma0045207	Mar 17, 2023	Approximate Sample 683g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	FA: Chrysotile asbestos detected in weathered fibrous material. Approximate raw weight of FA = 0.00020g Estimated asbestos content in FA = 0.00018g* Total estimated asbestos concentration in FA = 0.000026% w/w* No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ012_9	23-Ma0045208	Mar 17, 2023	Approximate Sample 891g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ012_10	23-Ma0045209	Mar 17, 2023	Approximate Sample 840g Sample consisted of: Brown coarse-grained clayey sandy soil, organic debris and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ012_11	23-Ma0045210	Mar 17, 2023	Approximate Sample 785g Sample consisted of: Brown coarse-grained clayey sandy soil and sand stone	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ012_12	23-Ma0045211	Mar 17, 2023	Approximate Sample 806g Sample consisted of: Brown coarse-grained sandy soil and sand stone	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ012_13	23-Ma0045212	Mar 17, 2023	Approximate Sample 828g Sample consisted of: Brown coarse-grained sandy soil and sand stone	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ012_14	23-Ma0045213	Mar 17, 2023	Approximate Sample 743g Sample consisted of: Brown coarse-grained sandy soil and sand stone	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
QC11	23-Ma0045214	Mar 17, 2023	Approximate Sample 680g Sample consisted of: Brown fine-grained sandy soil, bitumen and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	Mar 20, 2023	Indefinite

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Project Name: GREEN SQUARE STAGE 3 & 4
Project ID: 62236

Order No.:
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Phone: 02 8245 0300
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Received: Mar 17, 2023 5:10 PM
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Priority: 5 Day
Contact Name: Christopher Dagger

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	AQ012_1	Mar 17, 2023		Soil	S23-Ma0045200	X
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3	AQ012_3	Mar 17, 2023		Soil	S23-Ma0045202	X
4	AQ012_4	Mar 17, 2023		Soil	S23-Ma0045203	X
5	AQ012_5	Mar 17, 2023		Soil	S23-Ma0045204	X
6	AQ012_6	Mar 17, 2023		Soil	S23-Ma0045205	X
7	AQ012_7	Mar 17, 2023		Soil	S23-Ma0045206	X
8	AQ012_8	Mar 17, 2023		Soil	S23-Ma0045207	X
9	AQ012_9	Mar 17, 2023		Soil	S23-Ma0045208	X
10	AQ012_10	Mar 17, 2023		Soil	S23-Ma0045209	X
11	AQ012_11	Mar 17, 2023		Soil	S23-Ma0045210	X
12	AQ012_12	Mar 17, 2023		Soil	S23-Ma0045211	X
13	AQ012_13	Mar 17, 2023		Soil	S23-Ma0045212	X

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: GREEN SQUARE STAGE 3 & 4
Project ID: 62236

Order No.:
Report #: 973322
Phone: 02 8245 0300
Fax:

Received: Mar 17, 2023 5:10 PM
Due: Mar 24, 2023
Priority: 5 Day
Contact Name: Christopher Dagger

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
14	AQ012_14	Mar 17, 2023		Soil	S23-Ma0045213	X
15	QC11	Mar 17, 2023		Soil	S23-Ma0045214	X
Test Counts						15

Internal Quality Control Review and Glossary General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with the colour **blue** indicates data provided by customer that may have an impact on the results.
5. This report replaces any interim results previously issued.

Holding Times

Please refer to the most recent version of the 'Sample Preservation and Container Guide' for holding times (QS3001).
If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

% w/w:	Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples (**% w/w**)
F/fld	Airborne fibre filter loading as Fibres (**N**) per Fields counted (**n**)
F/mL	Airborne fibre reported concentration as Fibres per millilitre of air drawn over the sampler membrane (**C**)
g, kg	Mass, e.g. of whole sample (**M**) or asbestos-containing find within the sample (**m**)
g/kg	Concentration in grams per kilogram
L, mL	Volume, e.g. of air as measured in AFM (**V** = **r** x **t**)
L/min	Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (**r**)
min	Time (**t**), e.g. of air sample collection period

Calculations

Airborne Fibre Concentration: $C = \left(\frac{A}{a}\right) \times \left(\frac{N}{n}\right) \times \left(\frac{1}{r}\right) \times \left(\frac{1}{t}\right) = K \times \left(\frac{N}{n}\right) \times \left(\frac{1}{V}\right)$

Asbestos Content (as asbestos): $\%\, w/w = \frac{(m \times P_A)}{M}$

Weighted Average (of asbestos): $\%_{WA} = \sum \frac{(m \times P_A)_x}{x}$

Terms

%asbestos	Estimated percentage of asbestos in a given matrix. May be derived from knowledge or experience of the material, informed by HSG264 *Appendix 2*, else assumed to be 15% in accordance with WA DOH *Appendix 2* (**P_A**).
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded (non-friable) condition. For the purposes of the NEPM and WA DOH, ACM corresponds to material larger than 7 mm x 7 mm.
AF	Asbestos Fines. Asbestos contamination within a soil sample, as defined by WA DOH. Includes loose fibre bundles and small pieces of friable and non-friable material such as asbestos cement fragments mixed with soil. Considered under the NEPM as equivalent to “non-bonded / friable”.
AFM	Airborne Fibre Monitoring, e.g. by the MFM.
Amosite	Amosite Asbestos Detected. Amosite may also refer to Fibrous Grunerite or Brown Asbestos. Identified in accordance with AS 4964-2004.
AS	Australian Standard.
Asbestos Content (as asbestos)	Total % w/w asbestos content in asbestos-containing finds in a soil sample (**% w/w)**.
Chrysotile	Chrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in accordance with AS 4964-2004.
COC	Chain of Custody.
Crocidolite	Crocidolite Asbestos Detected. Crocidolite may also refer to Fibrous Riebeckite or Blue Asbestos. Identified in accordance with AS 4964-2004.
Dry	Sample is dried by heating prior to analysis.
DS	Dispersion Staining. Technique required for Unequivocal Identification of asbestos fibres by PLM.
FA	Fibrous Asbestos. Asbestos containing material that is wholly or in part friable, including materials with higher asbestos content with a propensity to become friable with handling, and any material that was previously non-friable and in a severely degraded condition. For the purposes of the NEPM and WA DOH, FA generally corresponds to material larger than 7 mm x 7 mm, although FA may be more difficult to visibly distinguish and may be assessed as AF.
Fibre Count	Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003
Fibre ID	Fibre Identification. Unequivocal identification of asbestos fibres according to AS 4964-2004. Includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos.
Friable	Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory’s remit to assess degree of friability.
HSG248	UK HSE HSG248, *Asbestos: The Analysts Guide*, 2nd Edition (2021).
HSG264	UK HSE HSG264, *Asbestos: The Survey Guide* (2012).
ISO (also ISO/IEC)	International Organization for Standardization / International Electrotechnical Commission.
K Factor	Microscope constant (**K**) as derived from the effective filter area of the given AFM membrane used for collecting the sample (**A**) and the projected eyepiece graticule area of the specific microscope used for the analysis (**a**).
LOR	Limit of Reporting.
MFM (also NOHSC:3003)	Membrane Filter Method. As described by the Australian Government National Occupational Health and Safety Commission, *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres*, 2nd Edition [NOHSC:3003(2005)].
NEPM (also ASC NEPM)	National Environment Protection (Assessment of Site Contamination) Measure, (2013, as amended).
Organic	Organic Fibres Detected. Organic may refer to Natural or Man-Made Polymeric Fibres. Identified in accordance with AS 4964-2004.
PCM	Phase Contrast Microscopy. As used for Fibre Counting according to the MFM.
PLM	Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 4964-2004.
Sampling	Unless otherwise stated Eurofins are not responsible for sampling equipment or the sampling process.
SMF	Synthetic Mineral Fibre Detected. SMF may also refer to Man Made Vitreous Fibres. Identified in accordance with AS 4964-2004.
SRA	Sample Receipt Advice.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix.
UK HSE HSG	United Kingdom, Health and Safety Executive, Health and Safety Guidance, publication.
UMF	Unidentified Mineral Fibre Detected. Fibrous minerals that are detected but have not been unequivocally identified by PLM with DS according the AS 4964-2004. May include (but not limited to) Actinolite, Anthophyllite or Tremolite asbestos.
WA DOH	Reference document for the NEPM. Government of Western Australia, *Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia* (updated 2021), including Appendix Four: *Laboratory analysis*
Weighted Average	Combined average % w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (**$\%_{WA}$**).

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	N/A
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Asbestos Counter/Identifier:

Sayeed Abu	Senior Analyst-Asbestos

Authorised by:

Chamath JHM Annakkage	Senior Analyst-Asbestos

Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

Eurofins shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

Chain of Custody

JBS&G

PROJECT NO.: 62236	LABORATORY BATCH NO.:
PROJECT NAME: GREEN SQUARE STAGE 3 & 4	SAMPLERS: L. CHU ; C. DAGGER
DATE NEEDED BY: STANDARD	QC LEVEL: NEPM (2013)

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) ~~CDAGGER~~.....@jbsg.com.au; (3) ASMITH.....@jbsg.com.au LCHU@JBSG.COM.AU ; AHOLLAND@JBSG.COM.AU

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
AQ023_1	SOIL	21/3/23		BAG.			X	
AQ023_2							X	
AQ023_3							X	
AQ023_4							X	
AQ023_5							X	
AQ023_6							X	
QC23							X	
AQ026_1							X	
AQ026_2							X	
AQ026_3							X	
AQ026_4							X	
AQ026_5							X	
AQ026_6							X	
AQ019_1							X	
AQ019_2							X	
AQ019_3							X	
AQ019_4							X	
AQ019_5							X	
AQ019_6							X	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: L. CHU DATE: 21/3/23	CONSIGNMENT NOTE NO.	NAME: Laura Lean	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 21.3.23 17:24	COOLER TEMP ..... deg C N/A
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

#974278

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Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Christopher Dagger
Project name:	GREEN SQUARE STAGE 3 + 4
Project ID:	62236
Turnaround time:	5 Day
Date/Time received	Mar 21, 2023 5:24 PM
Eurofins reference	974278

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
N/A	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
N/A	Sample containers for volatile analysis received with zero headspace.
✗	Split sample sent to requested external lab.
✗	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Andrew Black on phone : (+61) 2 9900 8490 or by email: AndrewBlack@eurofins.com

Results will be delivered electronically via email to Christopher Dagger - cdagger@jbsg.com.au.

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web: www.eurofins.com.au
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VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	Tel: +61 2 4968 8448
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NATA# 1261 Site# 1254	NATA# 1261 Site# 25403	NATA# 1261 Site# 18217	NATA# 1261 Site# 25466	NATA# 1261 Site# 20794	Site# 25079 & 25289

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Project Name: GREEN SQUARE STAGE 3 + 4
Project ID: 62236

Order No.:
Report #: 974278
Phone: 02 8245 0300
Fax:

Received: Mar 21, 2023 5:24 PM
Due: Mar 28, 2023
Priority: 5 Day
Contact Name: Christopher Dagger

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	AQ023-1	Mar 21, 2023		Soil	S23-Ma0052193	X
2	AQ023-2	Mar 21, 2023		Soil	S23-Ma0052194	X
3	AQ023-3	Mar 21, 2023		Soil	S23-Ma0052195	X
4	AQ023-4	Mar 21, 2023		Soil	S23-Ma0052196	X
5	AQ023-5	Mar 21, 2023		Soil	S23-Ma0052197	X
6	AQ023-6	Mar 21, 2023		Soil	S23-Ma0052198	X
7	QC23	Mar 21, 2023		Soil	S23-Ma0052199	X
8	AQ026-1	Mar 21, 2023		Soil	S23-Ma0052200	X
9	AQ026-2	Mar 21, 2023		Soil	S23-Ma0052201	X
10	AQ026-3	Mar 21, 2023		Soil	S23-Ma0052202	X
11	AQ026-4	Mar 21, 2023		Soil	S23-Ma0052203	X
12	AQ026-5	Mar 21, 2023		Soil	S23-Ma0052204	X
13	AQ026-6	Mar 21, 2023		Soil	S23-Ma0052205	X

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Tel: +61 3 8564 5000	Tel: +61 3 8564 5000	Tel: +61 2 9900 8400	Tel: +61 2 6113 8091	Tel: +61 7 3902 4600	NATA# 1261
NATA# 1261 Site# 1254	NATA# 1261 Site# 25403	NATA# 1261 Site# 18217	NATA# 1261 Site# 25466	NATA# 1261 Site# 20794	Site# 25079 & 25289

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IANZ# 1327	IANZ# 1290

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
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NSW 2000

Project Name: GREEN SQUARE STAGE 3 + 4
Project ID: 62236

Order No.:
Report #: 974278
Phone: 02 8245 0300
Fax:

Received: Mar 21, 2023 5:24 PM
Due: Mar 28, 2023
Priority: 5 Day
Contact Name: Christopher Dagger

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
14	AQ019-1	Mar 21, 2023		Soil	S23-Ma0052206	X
15	AQ019-2	Mar 21, 2023		Soil	S23-Ma0052207	X
16	AQ019-3	Mar 21, 2023		Soil	S23-Ma0052208	X
17	AQ019-4	Mar 21, 2023		Soil	S23-Ma0052209	X
18	AQ019-5	Mar 21, 2023		Soil	S23-Ma0052210	X
19	AQ019-6	Mar 21, 2023		Soil	S23-Ma0052211	X
Test Counts						19

Certificate of Analysis

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025–Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention:	Christopher Dagger
Report	974278-AID-V3
Project Name	GREEN SQUARE STAGE 3 + 4
Project ID	62236
Received Date	Mar 21, 2023
Date Reported	Mar 30, 2023

Methodology:

Asbestos Fibre Identification	Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques. *NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.*
Unknown Mineral Fibres	Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity. *NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.*
Subsampling Soil Samples	The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed. *NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.*
Bonded asbestos-containing material (ACM)	The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination.The resultant material is then further examined in accordance with AS 4964 - 2004. *NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.*
Limit of Reporting	The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w). The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk). *NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos".This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.*

Project Name GREEN SQUARE STAGE 3 + 4
Project ID 62236
Date Sampled Mar 21, 2023
Report 974278-AID-V3

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
AQ023-1	23-Ma0052193	Mar 21, 2023	Approximate Sample 750g Sample consisted of: Brown coarse-grained sandy soil, glass, bitumen and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ023-2	23-Ma0052194	Mar 21, 2023	Approximate Sample 592g Sample consisted of: Brown coarse-grained sandy soil, cement, brick, bitumen and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ023-3	23-Ma0052195	Mar 21, 2023	Approximate Sample 700g Sample consisted of: Brown coarse-grained sandy soil, glass, cement, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ023-4	23-Ma0052196	Mar 21, 2023	Approximate Sample 670g Sample consisted of: Brown coarse-grained sandy soil, brick, glass and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ023-5	23-Ma0052197	Mar 21, 2023	Approximate Sample 652g Sample consisted of: Brown coarse-grained sandy soil, brick, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ023-6	23-Ma0052198	Mar 21, 2023	Approximate Sample 711g Sample consisted of: Brown coarse-grained sandy soil, brick, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
QC23	23-Ma0052199	Mar 21, 2023	Approximate Sample 544g Sample consisted of: Brown coarse-grained sandy soil, cement, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ026-1	23-Ma0052200	Mar 21, 2023	Approximate Sample 664g Sample consisted of: Brown coarse-grained soil, coal, brick, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
AQ026-2	23-Ma0052201	Mar 21, 2023	Approximate Sample 625g Sample consisted of: Brown coarse-grained sandy clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ026-3	23-Ma0052202	Mar 21, 2023	Approximate Sample 605g Sample consisted of: Brown coarse-grained sandy soil, brick, plaster, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ026-4	23-Ma0052203	Mar 21, 2023	Approximate Sample 896g Sample consisted of: Brown coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ026-5	23-Ma0052204	Mar 21, 2023	Approximate Sample 661g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ026-6	23-Ma0052205	Mar 21, 2023	Approximate Sample 556g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ019-1	23-Ma0052206	Mar 21, 2023	Approximate Sample 716g Sample consisted of: Brown coarse-grained sandy soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ019-2	23-Ma0052207	Mar 21, 2023	Approximate Sample 804g Sample consisted of: Brown coarse-grained sandy soil, brick, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ019-3	23-Ma0052208	Mar 21, 2023	Approximate Sample 664g Sample consisted of: Brown coarse-grained sandy clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ019-4	23-Ma0052209	Mar 21, 2023	Approximate Sample 779g Sample consisted of: Brown coarse-grained sandy soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ019-5	23-Ma0052210	Mar 21, 2023	Approximate Sample 732g Sample consisted of: Brown coarse-grained sandy soil, plaster, bitumen and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ019-6	23-Ma0052211	Mar 21, 2023	Approximate Sample 540g Sample consisted of: Brown coarse-grained soil, brick, coal and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	Mar 22, 2023	Indefinite

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NATA# 1261 Site# 25403

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: GREEN SQUARE STAGE 3 + 4
Project ID: 62236

Order No.:
Report #: 974278
Phone: 02 8245 0300
Fax:

Received: Mar 21, 2023 5:24 PM
Due: Mar 28, 2023
Priority: 5 Day
Contact Name: Christopher Dagger

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	AQ023-1	Mar 21, 2023		Soil	S23-Ma0052193	X
2	AQ023-2	Mar 21, 2023		Soil	S23-Ma0052194	X
3	AQ023-3	Mar 21, 2023		Soil	S23-Ma0052195	X
4	AQ023-4	Mar 21, 2023		Soil	S23-Ma0052196	X
5	AQ023-5	Mar 21, 2023		Soil	S23-Ma0052197	X
6	AQ023-6	Mar 21, 2023		Soil	S23-Ma0052198	X
7	QC23	Mar 21, 2023		Soil	S23-Ma0052199	X
8	AQ026-1	Mar 21, 2023		Soil	S23-Ma0052200	X
9	AQ026-2	Mar 21, 2023		Soil	S23-Ma0052201	X
10	AQ026-3	Mar 21, 2023		Soil	S23-Ma0052202	X
11	AQ026-4	Mar 21, 2023		Soil	S23-Ma0052203	X
12	AQ026-5	Mar 21, 2023		Soil	S23-Ma0052204	X
13	AQ026-6	Mar 21, 2023		Soil	S23-Ma0052205	X

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Address: Level 1, 50 Margaret St
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Project ID: 62236

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Phone: 02 8245 0300
Fax:

Received: Mar 21, 2023 5:24 PM
Due: Mar 28, 2023
Priority: 5 Day
Contact Name: Christopher Dagger

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
14	AQ019-1	Mar 21, 2023		Soil	S23-Ma0052206	X
15	AQ019-2	Mar 21, 2023		Soil	S23-Ma0052207	X
16	AQ019-3	Mar 21, 2023		Soil	S23-Ma0052208	X
17	AQ019-4	Mar 21, 2023		Soil	S23-Ma0052209	X
18	AQ019-5	Mar 21, 2023		Soil	S23-Ma0052210	X
19	AQ019-6	Mar 21, 2023		Soil	S23-Ma0052211	X
Test Counts						19

Internal Quality Control Review and Glossary General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with the colour **blue** indicates data provided by customer that may have an impact on the results.
5. This report replaces any interim results previously issued.

Holding Times

Please refer to the most recent version of the 'Sample Preservation and Container Guide' for holding times (QS3001).
If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

% w/w:	Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples (**% w/w**)
F/fld	Airborne fibre filter loading as Fibres (**N**) per Fields counted (**n**)
F/mL	Airborne fibre reported concentration as Fibres per millilitre of air drawn over the sampler membrane (**C**)
g, kg	Mass, e.g. of whole sample (**M**) or asbestos-containing find within the sample (**m**)
g/kg	Concentration in grams per kilogram
L, mL	Volume, e.g. of air as measured in AFM (**V** = **r** x **t**)
L/min	Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (**r**)
min	Time (**t**), e.g. of air sample collection period

Calculations

Airborne Fibre Concentration: $C = \left(\frac{A}{a}\right) \times \left(\frac{N}{n}\right) \times \left(\frac{1}{r}\right) \times \left(\frac{1}{t}\right) = K \times \left(\frac{N}{n}\right) \times \left(\frac{1}{V}\right)$

Asbestos Content (as asbestos): $\%\, w/w = \frac{(m \times P_A)}{M}$

Weighted Average (of asbestos): $\%_{WA} = \sum \frac{(m \times P_A)_x}{x}$

Terms

%asbestos	Estimated percentage of asbestos in a given matrix. May be derived from knowledge or experience of the material, informed by HSG264 *Appendix 2*, else assumed to be 15% in accordance with WA DOH *Appendix 2* (**P_A**).
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded (non-friable) condition. For the purposes of the NEPM and WA DOH, ACM corresponds to material larger than 7 mm x 7 mm.
AF	Asbestos Fines. Asbestos contamination within a soil sample, as defined by WA DOH. Includes loose fibre bundles and small pieces of friable and non-friable material such as asbestos cement fragments mixed with soil. Considered under the NEPM as equivalent to “non-bonded / friable”.
AFM	Airborne Fibre Monitoring, e.g. by the MFM.
Amosite	Amosite Asbestos Detected. Amosite may also refer to Fibrous Grunerite or Brown Asbestos. Identified in accordance with AS 4964-2004.
AS	Australian Standard.
Asbestos Content (as asbestos)	Total % w/w asbestos content in asbestos-containing finds in a soil sample (**% w/w)**.
Chrysotile	Chrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in accordance with AS 4964-2004.
COC	Chain of Custody.
Crocidolite	Crocidolite Asbestos Detected. Crocidolite may also refer to Fibrous Riebeckite or Blue Asbestos. Identified in accordance with AS 4964-2004.
Dry	Sample is dried by heating prior to analysis.
DS	Dispersion Staining. Technique required for Unequivocal Identification of asbestos fibres by PLM.
FA	Fibrous Asbestos. Asbestos containing material that is wholly or in part friable, including materials with higher asbestos content with a propensity to become friable with handling, and any material that was previously non-friable and in a severely degraded condition. For the purposes of the NEPM and WA DOH, FA generally corresponds to material larger than 7 mm x 7 mm, although FA may be more difficult to visibly distinguish and may be assessed as AF.
Fibre Count	Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003
Fibre ID	Fibre Identification. Unequivocal identification of asbestos fibres according to AS 4964-2004. Includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos.
Friable	Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory’s remit to assess degree of friability.
HSG248	UK HSE HSG248, *Asbestos: The Analysts Guide*, 2nd Edition (2021).
HSG264	UK HSE HSG264, *Asbestos: The Survey Guide* (2012).
ISO (also ISO/IEC)	International Organization for Standardization / International Electrotechnical Commission.
K Factor	Microscope constant (**K**) as derived from the effective filter area of the given AFM membrane used for collecting the sample (**A**) and the projected eyepiece graticule area of the specific microscope used for the analysis (**a**).
LOR	Limit of Reporting.
MFM (also NOHSC:3003)	Membrane Filter Method. As described by the Australian Government National Occupational Health and Safety Commission, *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres*, 2nd Edition [NOHSC:3003(2005)].
NEPM (also ASC NEPM)	National Environment Protection (Assessment of Site Contamination) Measure, (2013, as amended).
Organic	Organic Fibres Detected. Organic may refer to Natural or Man-Made Polymeric Fibres. Identified in accordance with AS 4964-2004.
PCM	Phase Contrast Microscopy. As used for Fibre Counting according to the MFM.
PLM	Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 4964-2004.
Sampling	Unless otherwise stated Eurofins are not responsible for sampling equipment or the sampling process.
SMF	Synthetic Mineral Fibre Detected. SMF may also refer to Man Made Vitreous Fibres. Identified in accordance with AS 4964-2004.
SRA	Sample Receipt Advice.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix.
UK HSE HSG	United Kingdom, Health and Safety Executive, Health and Safety Guidance, publication.
UMF	Unidentified Mineral Fibre Detected. Fibrous minerals that are detected but have not been unequivocally identified by PLM with DS according the AS 4964-2004. May include (but not limited to) Actinolite, Anthophyllite or Tremolite asbestos.
WA DOH	Reference document for the NEPM. Government of Western Australia, *Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia* (updated 2021), including Appendix Four: *Laboratory analysis*
Weighted Average	Combined average % w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (**$\%_{WA}$**).

Comments

V3- new version to amend attempted to chill comment to N/A since not applicable for asbestos samples.

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	N/A
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	N/A
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Asbestos Counter/Identifier:

Laxman Dias	Senior Analyst-Asbestos

Authorised by:

Sayeed Abu	Senior Analyst-Asbestos

Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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Chain of Custody

JBS&G

PROJECT NO.: 62236
PROJECT NAME: GREEN SQUARE STAGE 3 & 4
DATE NEEDED BY: STANDARD

LABORATORY BATCH NO.:
SAMPLERS: AMY ROLLAND, MARTINE DESPARTES
QC LEVEL: NEPM (2013)

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) CDAGGER@jbsg.com.au; (3) AJSMITH@jbsg.com.au AHOLLAND@JBSG.COM.AU; LCHU@JBSG.COM.AU;

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
AQ01 – 1	Soil	20/3/23		BAG.		X	X	
2							X	
3							X	
4							X	
5							X	
6							X	
7							X	
8							X	
9							X	
10							X	
11							X	
12							X	
QC16								

RELINQUISHED BY:
NAME: L.CHU DATE: 20/03/23.
OF: JBS&G

METHOD OF SHIPMENT:
CONSIGNMENT NOTE NO.
TRANSPORT CO.

RECEIVED BY:
NAME:
DATE: 21/3/23 5.20pm
OF:

FOR RECEIVING LAB USE ONLY:
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C

NAME: DATE:
OF:

CONSIGNMENT NOTE NO.
TRANSPORT CO

NAME: DATE:
OF:

COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

#974295

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Rolleston,
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Tel: 0800 856 450
IANZ# 1290

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Christopher Dagger
Project name:	GREEN SQUARE STAGE 3 + 4
Project ID:	62236
Turnaround time:	5 Day
Date/Time received	Mar 21, 2023 5:23 PM
Eurofins reference	974295

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
N/A	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
N/A	Sample containers for volatile analysis received with zero headspace.
✗	Split sample sent to requested external lab.
✗	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Andrew Black on phone : (+61) 2 9900 8490 or by email: AndrewBlack@eurofins.com

Results will be delivered electronically via email to Christopher Dagger - cdagger@jbsg.com.au.

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web: www.eurofins.com.au
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Tel: +61 3 8564 5000	Tel: +61 3 8564 5000	Tel: +61 2 9900 8400	Tel: +61 2 6113 8091	Tel: +61 7 3902 4600	NATA# 1261
NATA# 1261 Site# 1254	NATA# 1261 Site# 25403	NATA# 1261 Site# 18217	NATA# 1261 Site# 25466	NATA# 1261 Site# 20794	Site# 25079 & 25289

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Project ID: 62236

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Phone: 02 8245 0300
Fax:

Received: Mar 21, 2023 5:23 PM
Due: Mar 28, 2023
Priority: 5 Day
Contact Name: Christopher Dagger

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	AQ11-1	Mar 20, 2023		Soil	S23-Ma0052272	X
2	AQ11-2	Mar 20, 2023		Soil	S23-Ma0052273	X
3	AQ11-3	Mar 20, 2023		Soil	S23-Ma0052274	X
4	AQ11-4	Mar 20, 2023		Soil	S23-Ma0052275	X
5	AQ11-5	Mar 20, 2023		Soil	S23-Ma0052276	X
6	AQ11-6	Mar 20, 2023		Soil	S23-Ma0052277	X
7	AQ11-7	Mar 20, 2023		Soil	S23-Ma0052278	X
8	AQ11-8	Mar 20, 2023		Soil	S23-Ma0052279	X
9	AQ11-9	Mar 20, 2023		Soil	S23-Ma0052280	X
10	AQ11-10	Mar 20, 2023		Soil	S23-Ma0052281	X
11	AQ11-11	Mar 20, 2023		Soil	S23-Ma0052282	X
12	AQ11-12	Mar 20, 2023		Soil	S23-Ma0052283	X
13	QC16	Mar 20, 2023		Soil	S23-Ma0052284	X

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Tel: +61 3 8564 5000	Tel: +61 3 8564 5000	Tel: +61 2 9900 8400	Tel: +61 2 6113 8091	Tel: +61 7 3902 4600	NATA# 1261
NATA# 1261 Site# 1254	NATA# 1261 Site# 25403	NATA# 1261 Site# 18217	NATA# 1261 Site# 25466	NATA# 1261 Site# 20794	Site# 25079 & 25289

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IANZ# 1327	IANZ# 1290

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Address: Level 1, 50 Margaret St
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NSW 2000

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Project ID: 62236

Order No.:
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Phone: 02 8245 0300
Fax:

Received: Mar 21, 2023 5:23 PM
Due: Mar 28, 2023
Priority: 5 Day
Contact Name: Christopher Dagger

Eurofins Analytical Services Manager : Andrew Black

Sample Detail	Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217	X
Test Counts	13

Certificate of Analysis

Environment Testing

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025–Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention:	Christopher Dagger
Report	974295-AID-V3
Project Name	GREEN SQUARE STAGE 3 + 4
Project ID	62236
Received Date	Mar 21, 2023
Date Reported	Mar 30, 2023

Methodology:

Asbestos Fibre Identification	Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques. *NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.*
Unknown Mineral Fibres	Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity. *NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.*
Subsampling Soil Samples	The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed. *NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.*
Bonded asbestos-containing material (ACM)	The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination.The resultant material is then further examined in accordance with AS 4964 - 2004. *NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.*
Limit of Reporting	The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w). The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk). *NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos".This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.*

Project Name GREEN SQUARE STAGE 3 + 4
Project ID 62236
Date Sampled Mar 20, 2023
Report 974295-AID-V3

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
AQ11-1	23-Ma0052272	Mar 20, 2023	Approximate Sample 858g Sample consisted of: Brown coarse-grained sandy soil, plaster and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ11-2	23-Ma0052273	Mar 20, 2023	Approximate Sample 726g Sample consisted of: Brown coarse-grained sandy soil, bitumen, charcoal and rocks	FA: Chrysotile asbestos detected in insulation like material. Approximate raw weight of FA = 0.18g Estimated asbestos content in FA = 0.12g* Total estimated asbestos concentration in FA = 0.017% w/w* Organic fibre detected. No trace asbestos detected.
AQ11-3	23-Ma0052274	Mar 20, 2023	Approximate Sample 778g Sample consisted of: Brown coarse-grained sandy soil, bitumen and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ11-4	23-Ma0052275	Mar 20, 2023	Approximate Sample 731g Sample consisted of: Brown coarse-grained sandy soil, bitumen and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ11-5	23-Ma0052276	Mar 20, 2023	Approximate Sample 699g Sample consisted of: Brown coarse-grained sandy soil, sand stone, bitumen, corroded metal and rocks	AF: Chrysotile asbestos detected in the form of loose fibre bundles. Approximate raw weight of AF = 0.00030g* Estimated asbestos content in AF = 0.00030g* Total estimated asbestos concentration in AF = 0.000043% w/w* No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
AQ11-6	23-Ma0052277	Mar 20, 2023	Approximate Sample 829g Sample consisted of: Brown coarse-grained sandy soil, sand stone and rocks	AF: Chrysotile asbestos detected in the form of loose fibre bundles. Approximate raw weight of AF = 0.019g* Estimated asbestos content in AF = 0.018g* Total estimated asbestos concentration in AF = 0.0022% w/w* Organic fibre detected. No trace asbestos detected.
AQ11-7	23-Ma0052278	Mar 20, 2023	Approximate Sample 837g Sample consisted of: Brown coarse-grained sandy soil, sand stone and rocks	AF: Chrysotile asbestos detected in the form of loose fibre bundles. Approximate raw weight of AF = 0.00090g* Estimated asbestos content in AF = 0.00090g* Total estimated asbestos concentration in AF = 0.00011% w/w* No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ11-8	23-Ma0052279	Mar 20, 2023	Approximate Sample 770g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ11-9	23-Ma0052280	Mar 20, 2023	Approximate Sample 387g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ11-10	23-Ma0052281	Mar 20, 2023	Approximate Sample 959g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ11-11	23-Ma0052282	Mar 20, 2023	Approximate Sample 830g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ11-12	23-Ma0052283	Mar 20, 2023	Approximate Sample 1072g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
QC16	23-Ma0052284	Mar 20, 2023	Approximate Sample 903g Sample consisted of: Brown coarse-grained clayey sandy soil, sand stone and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	Mar 22, 2023	Indefinite

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NATA# 1261 Site# 25403

Sydney
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NSW 2145
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NATA# 1261 Site# 18217

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Mitchell
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NATA# 1261 Site# 25466

Brisbane
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Murarrie
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NATA# 1261 Site# 20794

Newcastle
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Mayfield West NSW 2304
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NATA# 1261
Site# 25079 & 25289

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
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Project Name: GREEN SQUARE STAGE 3 + 4
Project ID: 62236

Order No.:
Report #: 974295
Phone: 02 8245 0300
Fax:

Received: Mar 21, 2023 5:23 PM
Due: Mar 28, 2023
Priority: 5 Day
Contact Name: Christopher Dagger

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	AQ11-1	Mar 20, 2023		Soil	S23-Ma0052272	X
2	AQ11-2	Mar 20, 2023		Soil	S23-Ma0052273	X
3	AQ11-3	Mar 20, 2023		Soil	S23-Ma0052274	X
4	AQ11-4	Mar 20, 2023		Soil	S23-Ma0052275	X
5	AQ11-5	Mar 20, 2023		Soil	S23-Ma0052276	X
6	AQ11-6	Mar 20, 2023		Soil	S23-Ma0052277	X
7	AQ11-7	Mar 20, 2023		Soil	S23-Ma0052278	X
8	AQ11-8	Mar 20, 2023		Soil	S23-Ma0052279	X
9	AQ11-9	Mar 20, 2023		Soil	S23-Ma0052280	X
10	AQ11-10	Mar 20, 2023		Soil	S23-Ma0052281	X
11	AQ11-11	Mar 20, 2023		Soil	S23-Ma0052282	X
12	AQ11-12	Mar 20, 2023		Soil	S23-Ma0052283	X
13	QC16	Mar 20, 2023		Soil	S23-Ma0052284	X

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NATA# 1261 Site# 1254	NATA# 1261 Site# 25403	NATA# 1261 Site# 18217	NATA# 1261 Site# 25466	NATA# 1261 Site# 20794	Site# 25079 & 25289

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Address: Level 1, 50 Margaret St
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NSW 2000

Project Name: GREEN SQUARE STAGE 3 + 4
Project ID: 62236

Order No.:
Report #: 974295
Phone: 02 8245 0300
Fax:

Received: Mar 21, 2023 5:23 PM
Due: Mar 28, 2023
Priority: 5 Day
Contact Name: Christopher Dagger

Eurofins Analytical Services Manager : Andrew Black

Sample Detail	Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217	X
Test Counts	13

Internal Quality Control Review and Glossary General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with the colour **blue** indicates data provided by customer that may have an impact on the results.
5. This report replaces any interim results previously issued.

Holding Times

Please refer to the most recent version of the 'Sample Preservation and Container Guide' for holding times (QS3001).
If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

% w/w:	Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples (**% w/w**)
F/fld	Airborne fibre filter loading as Fibres (**N**) per Fields counted (**n**)
F/mL	Airborne fibre reported concentration as Fibres per millilitre of air drawn over the sampler membrane (**C**)
g, kg	Mass, e.g. of whole sample (**M**) or asbestos-containing find within the sample (**m**)
g/kg	Concentration in grams per kilogram
L, mL	Volume, e.g. of air as measured in AFM (**V** = **r** x **t**)
L/min	Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (**r**)
min	Time (**t**), e.g. of air sample collection period

Calculations

Airborne Fibre Concentration: $C = \left(\frac{A}{a}\right) \times \left(\frac{N}{n}\right) \times \left(\frac{1}{r}\right) \times \left(\frac{1}{t}\right) = K \times \left(\frac{N}{n}\right) \times \left(\frac{1}{V}\right)$

Asbestos Content (as asbestos): $\%\, w/w = \frac{(m \times P_A)}{M}$

Weighted Average (of asbestos): $\%_{WA} = \sum \frac{(m \times P_A)_x}{x}$

Terms

%asbestos	Estimated percentage of asbestos in a given matrix. May be derived from knowledge or experience of the material, informed by HSG264 *Appendix 2*, else assumed to be 15% in accordance with WA DOH *Appendix 2* (**P_A**).
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded (non-friable) condition. For the purposes of the NEPM and WA DOH, ACM corresponds to material larger than 7 mm x 7 mm.
AF	Asbestos Fines. Asbestos contamination within a soil sample, as defined by WA DOH. Includes loose fibre bundles and small pieces of friable and non-friable material such as asbestos cement fragments mixed with soil. Considered under the NEPM as equivalent to “non-bonded / friable”.
AFM	Airborne Fibre Monitoring, e.g. by the MFM.
Amosite	Amosite Asbestos Detected. Amosite may also refer to Fibrous Grunerite or Brown Asbestos. Identified in accordance with AS 4964-2004.
AS	Australian Standard.
Asbestos Content (as asbestos)	Total % w/w asbestos content in asbestos-containing finds in a soil sample (**% w/w)**.
Chrysotile	Chrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in accordance with AS 4964-2004.
COC	Chain of Custody.
Crocidolite	Crocidolite Asbestos Detected. Crocidolite may also refer to Fibrous Riebeckite or Blue Asbestos. Identified in accordance with AS 4964-2004.
Dry	Sample is dried by heating prior to analysis.
DS	Dispersion Staining. Technique required for Unequivocal Identification of asbestos fibres by PLM.
FA	Fibrous Asbestos. Asbestos containing material that is wholly or in part friable, including materials with higher asbestos content with a propensity to become friable with handling, and any material that was previously non-friable and in a severely degraded condition. For the purposes of the NEPM and WA DOH, FA generally corresponds to material larger than 7 mm x 7 mm, although FA may be more difficult to visibly distinguish and may be assessed as AF.
Fibre Count	Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003
Fibre ID	Fibre Identification. Unequivocal identification of asbestos fibres according to AS 4964-2004. Includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos.
Friable	Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory’s remit to assess degree of friability.
HSG248	UK HSE HSG248, *Asbestos: The Analysts Guide*, 2nd Edition (2021).
HSG264	UK HSE HSG264, *Asbestos: The Survey Guide* (2012).
ISO (also ISO/IEC)	International Organization for Standardization / International Electrotechnical Commission.
K Factor	Microscope constant (**K**) as derived from the effective filter area of the given AFM membrane used for collecting the sample (**A**) and the projected eyepiece graticule area of the specific microscope used for the analysis (**a**).
LOR	Limit of Reporting.
MFM (also NOHSC:3003)	Membrane Filter Method. As described by the Australian Government National Occupational Health and Safety Commission, *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres*, 2nd Edition [NOHSC:3003(2005)].
NEPM (also ASC NEPM)	National Environment Protection (Assessment of Site Contamination) Measure, (2013, as amended).
Organic	Organic Fibres Detected. Organic may refer to Natural or Man-Made Polymeric Fibres. Identified in accordance with AS 4964-2004.
PCM	Phase Contrast Microscopy. As used for Fibre Counting according to the MFM.
PLM	Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 4964-2004.
Sampling	Unless otherwise stated Eurofins are not responsible for sampling equipment or the sampling process.
SMF	Synthetic Mineral Fibre Detected. SMF may also refer to Man Made Vitreous Fibres. Identified in accordance with AS 4964-2004.
SRA	Sample Receipt Advice.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix.
UK HSE HSG	United Kingdom, Health and Safety Executive, Health and Safety Guidance, publication.
UMF	Unidentified Mineral Fibre Detected. Fibrous minerals that are detected but have not been unequivocally identified by PLM with DS according the AS 4964-2004. May include (but not limited to) Actinolite, Anthophyllite or Tremolite asbestos.
WA DOH	Reference document for the NEPM. Government of Western Australia, *Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia* (updated 2021), including Appendix Four: *Laboratory analysis*
Weighted Average	Combined average % w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (**$\%_{WA}$**).

Comments

V3- new version to amend attempted to chill comment to N/A since not applicable for asbestos samples.

23-Ma0052280: Sample received was less than the nominal 500mL as recommended in Section 4.10 of the NEPM Schedule B1 - Guideline on Investigation Levels for Soil and Groundwater.

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	N/A
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	N/A
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Asbestos Counter/Identifier:

Sayeed Abu	Senior Analyst-Asbestos

Authorised by:

Chamath JHM Annakkage	Senior Analyst-Asbestos

Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

Eurofins shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

Chain of Custody

JBS&G

PROJECT NO.: 62236
PROJECT NAME: Green Square - Stage 3 & 4
DATE NEEDED BY: STANDARD

LABORATORY BATCH NO.:
SAMPLERS: L. CHU, A. SMITH
QC LEVEL: NEPM (2013)

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....@jbsg.com.au; (3) A.SMITH.....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
AQ018 - 1	SOIL	21/3/23		BAG			X	
2	↓	↓		↓			X	
3							X	
4							X	
5							X	
6							X	
7							X	
8							X	
9							X	
10							X	
11							X	
QC 21							X	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: L. CHU DATE: 21/3/23	CONSIGNMENT NOTE NO.	NAME: RP	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 21/3/23 5:20pm	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

#974304

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Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Christopher Dagger
Project name:	GREEN SQUARE STAGE 3 + 4
Project ID:	62236
Turnaround time:	5 Day
Date/Time received	Mar 21, 2023 5:20 PM
Eurofins reference	974304

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
N/A	Sample containers for volatile analysis received with zero headspace.
✗	Split sample sent to requested external lab.
✗	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Andrew Black on phone : (+61) 2 9900 8490 or by email: AndrewBlack@eurofins.com

Results will be delivered electronically via email to Christopher Dagger - cdagger@jbsg.com.au.

Global Leader - Results you can trust

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IANZ# 1290

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Project Name: GREEN SQUARE STAGE 3 + 4
Project ID: 62236

Order No.:
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Phone: 02 8245 0300
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Priority: 5 Day
Contact Name: Christopher Dagger

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	AQ018-1	Mar 21, 2023		Soil	S23-Ma0052354	X
2	AQ018-2	Mar 21, 2023		Soil	S23-Ma0052355	X
3	AQ018-3	Mar 21, 2023		Soil	S23-Ma0052356	X
4	AQ018-4	Mar 21, 2023		Soil	S23-Ma0052357	X
5	AQ018-5	Mar 21, 2023		Soil	S23-Ma0052358	X
6	AQ018-6	Mar 21, 2023		Soil	S23-Ma0052359	X
7	AQ018-7	Mar 21, 2023		Soil	S23-Ma0052360	X
8	AQ018-8	Mar 21, 2023		Soil	S23-Ma0052361	X
9	AQ018-9	Mar 21, 2023		Soil	S23-Ma0052362	X
10	AQ018-10	Mar 21, 2023		Soil	S23-Ma0052363	X
11	AQ018-11	Mar 21, 2023		Soil	S23-Ma0052364	X
12	QC21	Mar 21, 2023		Soil	S23-Ma0052365	X
Test Counts						12

Certificate of Analysis

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025–Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention:	Christopher Dagger
Report	974304-AID-V4
Project Name	GREEN SQUARE STAGE 3 + 4
Project ID	62236
Received Date	Mar 21, 2023
Date Reported	Mar 31, 2023

Methodology:

Asbestos Fibre Identification	Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques. *NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.*
Unknown Mineral Fibres	Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity. *NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.*
Subsampling Soil Samples	The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed. *NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.*
Bonded asbestos-containing material (ACM)	The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination.The resultant material is then further examined in accordance with AS 4964 - 2004. *NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.*
Limit of Reporting	The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w). The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk). *NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos".This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.*

Project Name GREEN SQUARE STAGE 3 + 4
Project ID 62236
Date Sampled Mar 21, 2023
Report 974304-AID-V4

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
AQ018-1	23-Ma0052354	Mar 21, 2023	Approximate Sample 620g Sample consisted of: Brown coarse-grained sandy soil, cement, brick, bitumen and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ018-2	23-Ma0052355	Mar 21, 2023	Approximate Sample 526g Sample consisted of: Brown coarse-grained sandy soil, cement, brick, bitumen and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ018-3	23-Ma0052356	Mar 21, 2023	Approximate Sample 439g Sample consisted of: Brown coarse-grained sandy soil, glass, coal and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ018-4	23-Ma0052357	Mar 21, 2023	Approximate Sample 546g Sample consisted of: Brown coarse-grained soil, brick, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ018-5	23-Ma0052358	Mar 21, 2023	Approximate Sample 691g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ018-6	23-Ma0052359	Mar 21, 2023	Approximate Sample 729g Sample consisted of: Brown coarse- grained sandy clayey soil, cement, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ018-7	23-Ma0052360	Mar 21, 2023	Approximate Sample 876g Sample consisted of: Brown coarse- grained sandy clayey soil, brick, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ018-8	23-Ma0052361	Mar 21, 2023	Approximate Sample 858g Sample consisted of: Brown fine-grained clayey soil, plaster, rubber, cement, brick, metal, rocks and debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
AQ018-9	23-Ma0052362	Mar 21, 2023	Approximate Sample 721g Sample consisted of: Brown fine-grained clayey soil, glass, brick, corroded metal, rocks and debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ018-10	23-Ma0052363	Mar 21, 2023	Approximate Sample 747g Sample consisted of: Brown fine-grained clayey soil, brick, cement, rubber, rocks and debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ018-11	23-Ma0052364	Mar 21, 2023	Approximate Sample 747g Sample consisted of: Brown coarse- grained sandy clayey soil, cement, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
QC21	23-Ma0052365	Mar 21, 2023	Approximate Sample 604g Sample consisted of: Brown coarse-grained sandy soil, bitumen, brick, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	Mar 23, 2023	Indefinite

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NATA# 1261
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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
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NSW 2000

Project Name: GREEN SQUARE STAGE 3 + 4
Project ID: 62236

Order No.:
Report #: 974304
Phone: 02 8245 0300
Fax:

Received: Mar 21, 2023 5:20 PM
Due: Mar 28, 2023
Priority: 5 Day
Contact Name: Christopher Dagger

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	AQ018-1	Mar 21, 2023		Soil	S23-Ma0052354	X
2	AQ018-2	Mar 21, 2023		Soil	S23-Ma0052355	X
3	AQ018-3	Mar 21, 2023		Soil	S23-Ma0052356	X
4	AQ018-4	Mar 21, 2023		Soil	S23-Ma0052357	X
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6	AQ018-6	Mar 21, 2023		Soil	S23-Ma0052359	X
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10	AQ018-10	Mar 21, 2023		Soil	S23-Ma0052363	X
11	AQ018-11	Mar 21, 2023		Soil	S23-Ma0052364	X
12	QC21	Mar 21, 2023		Soil	S23-Ma0052365	X
Test Counts						12

Internal Quality Control Review and Glossary General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with the colour **blue** indicates data provided by customer that may have an impact on the results.
5. This report replaces any interim results previously issued.

Holding Times

Please refer to the most recent version of the 'Sample Preservation and Container Guide' for holding times (QS3001).
If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

% w/w:	Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples (**% w/w**)
F/fld	Airborne fibre filter loading as Fibres (**N**) per Fields counted (**n**)
F/mL	Airborne fibre reported concentration as Fibres per millilitre of air drawn over the sampler membrane (**C**)
g, kg	Mass, e.g. of whole sample (**M**) or asbestos-containing find within the sample (**m**)
g/kg	Concentration in grams per kilogram
L, mL	Volume, e.g. of air as measured in AFM (**V** = **r** x **t**)
L/min	Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (**r**)
min	Time (**t**), e.g. of air sample collection period

Calculations

Airborne Fibre Concentration: $C = \left(\frac{A}{a}\right) \times \left(\frac{N}{n}\right) \times \left(\frac{1}{r}\right) \times \left(\frac{1}{t}\right) = K \times \left(\frac{N}{n}\right) \times \left(\frac{1}{V}\right)$

Asbestos Content (as asbestos): $\%\, w/w = \frac{(m \times P_A)}{M}$

Weighted Average (of asbestos): $\%_{WA} = \sum \frac{(m \times P_A)_x}{x}$

Terms

%asbestos	Estimated percentage of asbestos in a given matrix. May be derived from knowledge or experience of the material, informed by HSG264 *Appendix 2*, else assumed to be 15% in accordance with WA DOH *Appendix 2* (**P_A**).
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded (non-friable) condition. For the purposes of the NEPM and WA DOH, ACM corresponds to material larger than 7 mm x 7 mm.
AF	Asbestos Fines. Asbestos contamination within a soil sample, as defined by WA DOH. Includes loose fibre bundles and small pieces of friable and non-friable material such as asbestos cement fragments mixed with soil. Considered under the NEPM as equivalent to “non-bonded / friable”.
AFM	Airborne Fibre Monitoring, e.g. by the MFM.
Amosite	Amosite Asbestos Detected. Amosite may also refer to Fibrous Grunerite or Brown Asbestos. Identified in accordance with AS 4964-2004.
AS	Australian Standard.
Asbestos Content (as asbestos)	Total % w/w asbestos content in asbestos-containing finds in a soil sample (**% w/w)**.
Chrysotile	Chrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in accordance with AS 4964-2004.
COC	Chain of Custody.
Crocidolite	Crocidolite Asbestos Detected. Crocidolite may also refer to Fibrous Riebeckite or Blue Asbestos. Identified in accordance with AS 4964-2004.
Dry	Sample is dried by heating prior to analysis.
DS	Dispersion Staining. Technique required for Unequivocal Identification of asbestos fibres by PLM.
FA	Fibrous Asbestos. Asbestos containing material that is wholly or in part friable, including materials with higher asbestos content with a propensity to become friable with handling, and any material that was previously non-friable and in a severely degraded condition. For the purposes of the NEPM and WA DOH, FA generally corresponds to material larger than 7 mm x 7 mm, although FA may be more difficult to visibly distinguish and may be assessed as AF.
Fibre Count	Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003
Fibre ID	Fibre Identification. Unequivocal identification of asbestos fibres according to AS 4964-2004. Includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos.
Friable	Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory’s remit to assess degree of friability.
HSG248	UK HSE HSG248, *Asbestos: The Analysts Guide*, 2nd Edition (2021).
HSG264	UK HSE HSG264, *Asbestos: The Survey Guide* (2012).
ISO (also ISO/IEC)	International Organization for Standardization / International Electrotechnical Commission.
K Factor	Microscope constant (**K**) as derived from the effective filter area of the given AFM membrane used for collecting the sample (**A**) and the projected eyepiece graticule area of the specific microscope used for the analysis (**a**).
LOR	Limit of Reporting.
MFM (also NOHSC:3003)	Membrane Filter Method. As described by the Australian Government National Occupational Health and Safety Commission, *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres*, 2nd Edition [NOHSC:3003(2005)].
NEPM (also ASC NEPM)	National Environment Protection (Assessment of Site Contamination) Measure, (2013, as amended).
Organic	Organic Fibres Detected. Organic may refer to Natural or Man-Made Polymeric Fibres. Identified in accordance with AS 4964-2004.
PCM	Phase Contrast Microscopy. As used for Fibre Counting according to the MFM.
PLM	Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 4964-2004.
Sampling	Unless otherwise stated Eurofins are not responsible for sampling equipment or the sampling process.
SMF	Synthetic Mineral Fibre Detected. SMF may also refer to Man Made Vitreous Fibres. Identified in accordance with AS 4964-2004.
SRA	Sample Receipt Advice.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix.
UK HSE HSG	United Kingdom, Health and Safety Executive, Health and Safety Guidance, publication.
UMF	Unidentified Mineral Fibre Detected. Fibrous minerals that are detected but have not been unequivocally identified by PLM with DS according the AS 4964-2004. May include (but not limited to) Actinolite, Anthophyllite or Tremolite asbestos.
WA DOH	Reference document for the NEPM. Government of Western Australia, *Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia* (updated 2021), including Appendix Four: *Laboratory analysis*
Weighted Average	Combined average % w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (**$\%_{WA}$**).

Comments

V4- new version to amend sample IDs that had AG to AQ as per client request.

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	N/A
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Asbestos Counter/Identifier:

Laxman Dias	Senior Analyst-Asbestos

Authorised by:

Chamath JHM Annakkage	Senior Analyst-Asbestos

Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

Eurofins shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

Chain of Custody

JBS&G

PROJECT NO.: 62236
PROJECT NAME: Green Square Stage 3 & 4
DATE NEEDED BY: STANDARD
LABORATORY BATCH NO.:
SAMPLERS: AARON SMITH, LAYMOND CHU
QC LEVEL: NEPM (2013)
PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) CDAGGER@jbsg.com.au; (3) ASSMITH@jbsg.com.au LCHU@JBSG.COM.AU ; AHOLLAND@JBSG.
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
AGCO8 - 1	SOIL	20/3/23		BAG			X	
- 2							X	
- 3							X	
- 4							X	
5							X	
6							X	
7							X	
8							X	
9							X	
10							X	
11							X	
12							X	
13							X	
14							X	
QC17							X	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: L. CHU DATE: 20/3/23	CONSIGNMENT NOTE NO.	NAME: Reyna Hilton	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 21/3/23 5:20 pm	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

#974308

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Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Christopher Dagger
Project name:	GREEN SQUARE STAGE 3 + 4
Project ID:	62236
Turnaround time:	5 Day
Date/Time received	Mar 21, 2023 5:20 PM
Eurofins reference	974308

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
N/A	Sample containers for volatile analysis received with zero headspace.
✗	Split sample sent to requested external lab.
✗	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Andrew Black on phone : (+61) 2 9900 8490 or by email: AndrewBlack@eurofins.com

Results will be delivered electronically via email to Christopher Dagger - cdagger@jbsg.com.au.

Global Leader - Results you can trust

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web: www.eurofins.com.au
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Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West NSW 2304
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	Tel: +61 2 4968 8448
Tel: +61 3 8564 5000	Tel: +61 3 8564 5000	Tel: +61 2 9900 8400	Tel: +61 2 6113 8091	Tel: +61 7 3902 4600	NATA# 1261
NATA# 1261 Site# 1254	NATA# 1261 Site# 25403	NATA# 1261 Site# 18217	NATA# 1261 Site# 25466	NATA# 1261 Site# 20794	Site# 25079 & 25289

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
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Project Name: GREEN SQUARE STAGE 3 + 4
Project ID: 62236

Order No.:
Report #: 974308
Phone: 02 8245 0300
Fax:

Received: Mar 21, 2023 5:20 PM
Due: Mar 28, 2023
Priority: 5 Day
Contact Name: Christopher Dagger

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	AQ008-1	Mar 20, 2023		Soil	S23-Ma0052382	X
2	AQ008-2	Mar 20, 2023		Soil	S23-Ma0052383	X
3	AQ008-3	Mar 20, 2023		Soil	S23-Ma0052384	X
4	AQ008-4	Mar 20, 2023		Soil	S23-Ma0052385	X
5	AQ008-5	Mar 20, 2023		Soil	S23-Ma0052386	X
6	AQ008-6	Mar 20, 2023		Soil	S23-Ma0052387	X
7	AQ008-7	Mar 20, 2023		Soil	S23-Ma0052388	X
8	AQ008-8	Mar 20, 2023		Soil	S23-Ma0052389	X
9	AQ008-9	Mar 20, 2023		Soil	S23-Ma0052390	X
10	AQ008-10	Mar 20, 2023		Soil	S23-Ma0052391	X
11	AQ008-11	Mar 20, 2023		Soil	S23-Ma0052392	X
12	AQ008-12	Mar 20, 2023		Soil	S23-Ma0052393	X
13	AQ008-13	Mar 20, 2023		Soil	S23-Ma0052394	X

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Eurofins Environment Testing Australia Pty Ltd
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Tel: +61 3 8564 5000	Tel: +61 3 8564 5000	Tel: +61 2 9900 8400	Tel: +61 2 6113 8091	Tel: +61 7 3902 4600	NATA# 1261
NATA# 1261 Site# 1254	NATA# 1261 Site# 25403	NATA# 1261 Site# 18217	NATA# 1261 Site# 25466	NATA# 1261 Site# 20794	Site# 25079 & 25289

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NATA# 2377 Site# 2370

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NZBN: 9429046024954

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Tel: +64 9 526 45 51	Tel: 0800 856 450
IANZ# 1327	IANZ# 1290

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: GREEN SQUARE STAGE 3 + 4
Project ID: 62236

Order No.:
Report #: 974308
Phone: 02 8245 0300
Fax:

Received: Mar 21, 2023 5:20 PM
Due: Mar 28, 2023
Priority: 5 Day
Contact Name: Christopher Dagger

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
14	AQ008-14	Mar 20, 2023		Soil	S23-Ma0052395	X
15	QC17	Mar 20, 2023		Soil	S23-Ma0052396	X
Test Counts						15

Certificate of Analysis

Environment Testing

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025–Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention:	Christopher Dagger
Report	974308-AID-V2
Project Name	GREEN SQUARE STAGE 3 + 4
Project ID	62236
Received Date	Mar 21, 2023
Date Reported	Mar 29, 2023

Methodology:

Asbestos Fibre Identification	Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques. *NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.*
Unknown Mineral Fibres	Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity. *NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.*
Subsampling Soil Samples	The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed. *NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.*
Bonded asbestos-containing material (ACM)	The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination.The resultant material is then further examined in accordance with AS 4964 - 2004. *NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.*
Limit of Reporting	The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w). The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk). *NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos".This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.*

Project Name GREEN SQUARE STAGE 3 + 4
Project ID 62236
Date Sampled Mar 20, 2023
Report 974308-AID-V2

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
AQ008-1	23-Ma0052382	Mar 20, 2023	Approximate Sample 749g Sample consisted of: Brown coarse-grained soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ008-2	23-Ma0052383	Mar 20, 2023	Approximate Sample 679g Sample consisted of: Brown coarse-grained soil, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ008-3	23-Ma0052384	Mar 20, 2023	Approximate Sample 567g Sample consisted of: Brown coarse-grained soil, brick, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ008-4	23-Ma0052385	Mar 20, 2023	Approximate Sample 815g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ008-5	23-Ma0052386	Mar 20, 2023	Approximate Sample 905g Sample consisted of: Brown fine-grained clayey soil, brick, coal and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ008-6	23-Ma0052387	Mar 20, 2023	Approximate Sample 992g Sample consisted of: Brown fine-grained clayey soil, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ008-7	23-Ma0052388	Mar 20, 2023	Approximate Sample 688g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ008-8	23-Ma0052389	Mar 20, 2023	Approximate Sample 767g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
AQ008-9	23-Ma0052390	Mar 20, 2023	Approximate Sample 791g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ008-10	23-Ma0052391	Mar 20, 2023	Approximate Sample 839g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ008-11	23-Ma0052392	Mar 20, 2023	Approximate Sample 713g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ008-12	23-Ma0052393	Mar 20, 2023	Approximate Sample 801g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ008-13	23-Ma0052394	Mar 20, 2023	Approximate Sample 758g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ008-14	23-Ma0052395	Mar 20, 2023	Approximate Sample 650g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
QC17	23-Ma0052396	Mar 20, 2023	Approximate Sample 562g Sample consisted of: Brown coarse-grained soil, bitumen, brick, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	Mar 22, 2023	Indefinite

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NATA# 1261 Site# 1254	NATA# 1261 Site# 25403	NATA# 1261 Site# 18217	NATA# 1261 Site# 25466	NATA# 1261 Site# 20794	Site# 25079 & 25289

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Contact Name: Christopher Dagger

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	AQ008-1	Mar 20, 2023		Soil	S23-Ma0052382	X
2	AQ008-2	Mar 20, 2023		Soil	S23-Ma0052383	X
3	AQ008-3	Mar 20, 2023		Soil	S23-Ma0052384	X
4	AQ008-4	Mar 20, 2023		Soil	S23-Ma0052385	X
5	AQ008-5	Mar 20, 2023		Soil	S23-Ma0052386	X
6	AQ008-6	Mar 20, 2023		Soil	S23-Ma0052387	X
7	AQ008-7	Mar 20, 2023		Soil	S23-Ma0052388	X
8	AQ008-8	Mar 20, 2023		Soil	S23-Ma0052389	X
9	AQ008-9	Mar 20, 2023		Soil	S23-Ma0052390	X
10	AQ008-10	Mar 20, 2023		Soil	S23-Ma0052391	X
11	AQ008-11	Mar 20, 2023		Soil	S23-Ma0052392	X
12	AQ008-12	Mar 20, 2023		Soil	S23-Ma0052393	X
13	AQ008-13	Mar 20, 2023		Soil	S23-Ma0052394	X

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Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
14	AQ008-14	Mar 20, 2023		Soil	S23-Ma0052395	X
15	QC17	Mar 20, 2023		Soil	S23-Ma0052396	X
Test Counts						15

Internal Quality Control Review and Glossary General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with the colour **blue** indicates data provided by customer that may have an impact on the results.
5. This report replaces any interim results previously issued.

Holding Times

Please refer to the most recent version of the 'Sample Preservation and Container Guide' for holding times (QS3001).
If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

% w/w:	Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples (**% w/w**)
F/fld	Airborne fibre filter loading as Fibres (**N**) per Fields counted (**n**)
F/mL	Airborne fibre reported concentration as Fibres per millilitre of air drawn over the sampler membrane (**C**)
g, kg	Mass, e.g. of whole sample (**M**) or asbestos-containing find within the sample (**m**)
g/kg	Concentration in grams per kilogram
L, mL	Volume, e.g. of air as measured in AFM (**V** = **r** x **t**)
L/min	Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (**r**)
min	Time (**t**), e.g. of air sample collection period

Calculations

Airborne Fibre Concentration: $C = \left(\frac{A}{a}\right) \times \left(\frac{N}{n}\right) \times \left(\frac{1}{r}\right) \times \left(\frac{1}{t}\right) = K \times \left(\frac{N}{n}\right) \times \left(\frac{1}{V}\right)$

Asbestos Content (as asbestos): $\%\, w/w = \frac{(m \times P_A)}{M}$

Weighted Average (of asbestos): $\%_{WA} = \sum \frac{(m \times P_A)_x}{x}$

Terms

%asbestos	Estimated percentage of asbestos in a given matrix. May be derived from knowledge or experience of the material, informed by HSG264 *Appendix 2*, else assumed to be 15% in accordance with WA DOH *Appendix 2* (**P_A**).
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded (non-friable) condition. For the purposes of the NEPM and WA DOH, ACM corresponds to material larger than 7 mm x 7 mm.
AF	Asbestos Fines. Asbestos contamination within a soil sample, as defined by WA DOH. Includes loose fibre bundles and small pieces of friable and non-friable material such as asbestos cement fragments mixed with soil. Considered under the NEPM as equivalent to “non-bonded / friable”.
AFM	Airborne Fibre Monitoring, e.g. by the MFM.
Amosite	Amosite Asbestos Detected. Amosite may also refer to Fibrous Grunerite or Brown Asbestos. Identified in accordance with AS 4964-2004.
AS	Australian Standard.
Asbestos Content (as asbestos)	Total % w/w asbestos content in asbestos-containing finds in a soil sample (**% w/w)**.
Chrysotile	Chrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in accordance with AS 4964-2004.
COC	Chain of Custody.
Crocidolite	Crocidolite Asbestos Detected. Crocidolite may also refer to Fibrous Riebeckite or Blue Asbestos. Identified in accordance with AS 4964-2004.
Dry	Sample is dried by heating prior to analysis.
DS	Dispersion Staining. Technique required for Unequivocal Identification of asbestos fibres by PLM.
FA	Fibrous Asbestos. Asbestos containing material that is wholly or in part friable, including materials with higher asbestos content with a propensity to become friable with handling, and any material that was previously non-friable and in a severely degraded condition. For the purposes of the NEPM and WA DOH, FA generally corresponds to material larger than 7 mm x 7 mm, although FA may be more difficult to visibly distinguish and may be assessed as AF.
Fibre Count	Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003
Fibre ID	Fibre Identification. Unequivocal identification of asbestos fibres according to AS 4964-2004. Includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos.
Friable	Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory’s remit to assess degree of friability.
HSG248	UK HSE HSG248, *Asbestos: The Analysts Guide*, 2nd Edition (2021).
HSG264	UK HSE HSG264, *Asbestos: The Survey Guide* (2012).
ISO (also ISO/IEC)	International Organization for Standardization / International Electrotechnical Commission.
K Factor	Microscope constant (**K**) as derived from the effective filter area of the given AFM membrane used for collecting the sample (**A**) and the projected eyepiece graticule area of the specific microscope used for the analysis (**a**).
LOR	Limit of Reporting.
MFM (also NOHSC:3003)	Membrane Filter Method. As described by the Australian Government National Occupational Health and Safety Commission, *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres*, 2nd Edition [NOHSC:3003(2005)].
NEPM (also ASC NEPM)	National Environment Protection (Assessment of Site Contamination) Measure, (2013, as amended).
Organic	Organic Fibres Detected. Organic may refer to Natural or Man-Made Polymeric Fibres. Identified in accordance with AS 4964-2004.
PCM	Phase Contrast Microscopy. As used for Fibre Counting according to the MFM.
PLM	Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 4964-2004.
Sampling	Unless otherwise stated Eurofins are not responsible for sampling equipment or the sampling process.
SMF	Synthetic Mineral Fibre Detected. SMF may also refer to Man Made Vitreous Fibres. Identified in accordance with AS 4964-2004.
SRA	Sample Receipt Advice.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix.
UK HSE HSG	United Kingdom, Health and Safety Executive, Health and Safety Guidance, publication.
UMF	Unidentified Mineral Fibre Detected. Fibrous minerals that are detected but have not been unequivocally identified by PLM with DS according the AS 4964-2004. May include (but not limited to) Actinolite, Anthophyllite or Tremolite asbestos.
WA DOH	Reference document for the NEPM. Government of Western Australia, *Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia* (updated 2021), including Appendix Four: *Laboratory analysis*
Weighted Average	Combined average % w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (**$\%_{WA}$**).

Comments

V2- new version to amend all sample IDs as per client request to match COC.

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	N/A
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Asbestos Counter/Identifier:

Laxman Dias	Senior Analyst-Asbestos

Authorised by:

Chamath JHM Annakkage	Senior Analyst-Asbestos

Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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Chain of Custody

JBS&G

PROJECT NO.: 62236	LABORATORY BATCH NO.:
PROJECT NAME: Green Square Stage 3 & 4	SAMPLERS: AARON SMITH, RAYMOND CHU
DATE NEEDED BY: STANDARD	QC LEVEL: NEPM (2013)

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) DAGGER@jbsg.com.au; (3) A.SSMITH@jbsg.com.au LCHU@JBSG.COM.AU; AHOLLAND@JBSG.COM.AU

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
AQ021 - 1	SOIL	20/03/23		BAG			X	
2							X	
3							X	
4							X	
5							X	
6							X	
QC19							X	
AQ024 - 1							X	
2							X	
3							X	
4							X	
5							X	
6							X	
AQ022 - 1							X	
2							X	
3							X	
4							X	
5							X	
6							X	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: L.CHU DATE: 20/03/23.	CONSIGNMENT NOTE NO.	NAME: Laura Lee	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 21-3-23 14:39	N/A
NAME: DATE:	CONSIGNMENT NOTE NO.	OF:	COOLER TEMP ..... deg C
OF:	TRANSPORT CO	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
		OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

#974425

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Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Christopher Dagger
Project name:	GREEN SQUARE STAGE 3 + 4
Project ID:	62236
Turnaround time:	5 Day
Date/Time received	Mar 21, 2023 5:39 PM
Eurofins reference	974425

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
N/A	Sample containers for volatile analysis received with zero headspace.
✗	Split sample sent to requested external lab.
✗	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Samples received by the laboratory after 5.30pm are deemed to have been received the following working day.

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Andrew Black on phone : (+61) 2 9900 8490 or by email: AndrewBlack@eurofins.com

Results will be delivered electronically via email to Christopher Dagger - cdagger@jbsg.com.au.

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
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Tel: +61 3 8564 5000	Tel: +61 3 8564 5000	Tel: +61 2 9900 8400	Tel: +61 2 6113 8091	Tel: +61 7 3902 4600	NATA# 1261
NATA# 1261 Site# 1254	NATA# 1261 Site# 25403	NATA# 1261 Site# 18217	NATA# 1261 Site# 25466	NATA# 1261 Site# 20794	Site# 25079 & 25289

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IANZ# 1327	IANZ# 1290

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: GREEN SQUARE STAGE 3 + 4
Project ID: 62236

Order No.:
Report #: 974425
Phone: 02 8245 0300
Fax:

Received: Mar 21, 2023 5:39 PM
Due: Mar 29, 2023
Priority: 5 Day
Contact Name: Christopher Dagger

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	AQ021-1	Mar 20, 2023		Soil	S23-Ma0053197	X
2	AQ021-2	Mar 20, 2023		Soil	S23-Ma0053198	X
3	AQ021-3	Mar 20, 2023		Soil	S23-Ma0053199	X
4	AQ021-4	Mar 20, 2023		Soil	S23-Ma0053200	X
5	AQ021-5	Mar 20, 2023		Soil	S23-Ma0053201	X
6	AQ021-6	Mar 20, 2023		Soil	S23-Ma0053202	X
7	QC19	Mar 20, 2023		Soil	S23-Ma0053203	X
8	AQ024-1	Mar 20, 2023		Soil	S23-Ma0053204	X
9	AQ024-2	Mar 20, 2023		Soil	S23-Ma0053205	X
10	AQ024-3	Mar 20, 2023		Soil	S23-Ma0053206	X
11	AQ024-4	Mar 20, 2023		Soil	S23-Ma0053207	X
12	AQ024-5	Mar 20, 2023		Soil	S23-Ma0053208	X
13	AQ024-6	Mar 20, 2023		Soil	S23-Ma0053209	X

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Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
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15	AQ022-2	Mar 20, 2023		Soil	S23-Ma0053211	X
16	AQ022-3	Mar 20, 2023		Soil	S23-Ma0053212	X
17	AQ022-4	Mar 20, 2023		Soil	S23-Ma0053213	X
18	AQ022-5	Mar 20, 2023		Soil	S23-Ma0053214	X
19	AQ022-6	Mar 20, 2023		Soil	S23-Ma0053215	X
Test Counts						19

JBS & G Australia (NSW) P/L
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Sydney
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NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025–Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention:	Christopher Dagger
Report	974425-AID
Project Name	GREEN SQUARE STAGE 3 + 4
Project ID	62236
Received Date	Mar 21, 2023
Date Reported	Mar 29, 2023

Methodology:

Asbestos Fibre Identification	Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques. *NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.*
Unknown Mineral Fibres	Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity. *NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.*
Subsampling Soil Samples	The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed. *NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.*
Bonded asbestos-containing material (ACM)	The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination.The resultant material is then further examined in accordance with AS 4964 - 2004. *NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.*
Limit of Reporting	The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w). The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk). *NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos".This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.*

Project Name GREEN SQUARE STAGE 3 + 4
Project ID 62236
Date Sampled Mar 20, 2023
Report 974425-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
AQ021-1	23-Ma0053197	Mar 20, 2023	Approximate Sample 610g Sample consisted of: Brown fine-grained sandy soil, brick, glass fragments and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ021-2	23-Ma0053198	Mar 20, 2023	Approximate Sample 632g Sample consisted of: Brown fine-grained sandy soil, plaster and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ021-3	23-Ma0053199	Mar 20, 2023	Approximate Sample 647g Sample consisted of: Brown fine-grained sandy soil, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ021-4	23-Ma0053200	Mar 20, 2023	Approximate Sample 656g Sample consisted of: Brown coarse-grained sandy soil, sand stone, bitumen and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ021-5	23-Ma0053201	Mar 20, 2023	Approximate Sample 869g Sample consisted of: Brown coarse-grained sandy soil, sand stone, bitumen and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ021-6	23-Ma0053202	Mar 20, 2023	Approximate Sample 846g Sample consisted of: Brown coarse-grained sandy soil, sand stone, bitumen and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
QC19	23-Ma0053203	Mar 20, 2023	Approximate Sample 625g Sample consisted of: Brown fine-grained sandy soil, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ024-1	23-Ma0053204	Mar 20, 2023	Approximate Sample 676g Sample consisted of: Brown fine-grained sandy soil, bitumen, glass and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
AQ024-2	23-Ma0053205	Mar 20, 2023	Approximate Sample 545g Sample consisted of: Black fine-grained sandy soil, bitumen and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ024-3	23-Ma0053206	Mar 20, 2023	Approximate Sample 638g Sample consisted of: Brown fine-grained sandy soil, bitumen and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ024-4	23-Ma0053207	Mar 20, 2023	Approximate Sample 451g Sample consisted of: Brown fine-grained sandy soil, corroded metal and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ024-5	23-Ma0053208	Mar 20, 2023	Approximate Sample 610g Sample consisted of: Brown fine-grained clayey sandy soil and rocks	FA: Chrysotile, amosite and crocidolite asbestos detected in soft plaster material. Approximate raw weight of FA = 2.5g Estimated asbestos content in FA = 1.5g* Total estimated asbestos concentration in FA = 0.24% w/w* Organic fibre detected. No trace asbestos detected.
AQ024-6	23-Ma0053209	Mar 20, 2023	Approximate Sample 607g Sample consisted of: Brown coarse-grained clayey sandy soil, corroded metal and rocks	FA: Chrysotile and amosite asbestos detected in soft plaster material. Approximate raw weight of FA = 0.13g Estimated asbestos content in FA = 0.077g* Total estimated asbestos concentration in FA = 0.013% w/w* Organic fibre detected. No trace asbestos detected.
AQ022-1	23-Ma0053210	Mar 20, 2023	Approximate Sample 665g Sample consisted of: Brown fine-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ022-2	23-Ma0053211	Mar 20, 2023	Approximate Sample 573g Sample consisted of: Brown fine-grained sandy soil, sand stone and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ022-3	23-Ma0053212	Mar 20, 2023	Approximate Sample 584g Sample consisted of: Brown fine-grained sandy soil, sand stone and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ022-4	23-Ma0053213	Mar 20, 2023	Approximate Sample 641g Sample consisted of: Brown fine-grained sandy soil, sand stone, brick, bitumen, glass and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ022-5	23-Ma0053214	Mar 20, 2023	Approximate Sample 580g Sample consisted of: Brown fine-grained sandy soil, bitumen and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
AQ022-6	23-Ma0053215	Mar 20, 2023	Approximate Sample 621g Sample consisted of: Brown fine-grained sandy soil, brick, bitumen like material and rocks	FA: Chrysotile asbestos detected in weathered plaster material. Approximate raw weight of FA = 0.014g Estimated asbestos content in FA = 0.0054g* Total estimated asbestos concentration in FA = 0.00088% w/w* No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	Mar 22, 2023	Indefinite

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Tel: +61 3 8564 5000	Tel: +61 3 8564 5000	Tel: +61 2 9900 8400	Tel: +61 2 6113 8091	Tel: +61 7 3902 4600	NATA# 1261
NATA# 1261 Site# 1254	NATA# 1261 Site# 25403	NATA# 1261 Site# 18217	NATA# 1261 Site# 25466	NATA# 1261 Site# 20794	Site# 25079 & 25289

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Order No.:
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Phone: 02 8245 0300
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Received: Mar 21, 2023 5:39 PM
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Priority: 5 Day
Contact Name: Christopher Dagger

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	AQ021-1	Mar 20, 2023		Soil	S23-Ma0053197	X
2	AQ021-2	Mar 20, 2023		Soil	S23-Ma0053198	X
3	AQ021-3	Mar 20, 2023		Soil	S23-Ma0053199	X
4	AQ021-4	Mar 20, 2023		Soil	S23-Ma0053200	X
5	AQ021-5	Mar 20, 2023		Soil	S23-Ma0053201	X
6	AQ021-6	Mar 20, 2023		Soil	S23-Ma0053202	X
7	QC19	Mar 20, 2023		Soil	S23-Ma0053203	X
8	AQ024-1	Mar 20, 2023		Soil	S23-Ma0053204	X
9	AQ024-2	Mar 20, 2023		Soil	S23-Ma0053205	X
10	AQ024-3	Mar 20, 2023		Soil	S23-Ma0053206	X
11	AQ024-4	Mar 20, 2023		Soil	S23-Ma0053207	X
12	AQ024-5	Mar 20, 2023		Soil	S23-Ma0053208	X
13	AQ024-6	Mar 20, 2023		Soil	S23-Ma0053209	X

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Sydney Laboratory - NATA # 1261 Site # 18217						X
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16	AQ022-3	Mar 20, 2023		Soil	S23-Ma0053212	X
17	AQ022-4	Mar 20, 2023		Soil	S23-Ma0053213	X
18	AQ022-5	Mar 20, 2023		Soil	S23-Ma0053214	X
19	AQ022-6	Mar 20, 2023		Soil	S23-Ma0053215	X
Test Counts						19

Internal Quality Control Review and Glossary General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with the colour **blue** indicates data provided by customer that may have an impact on the results.
5. This report replaces any interim results previously issued.

Holding Times

Please refer to the most recent version of the 'Sample Preservation and Container Guide' for holding times (QS3001).
If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

% w/w:	Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples (**% w/w**)
F/fld	Airborne fibre filter loading as Fibres (**N**) per Fields counted (**n**)
F/mL	Airborne fibre reported concentration as Fibres per millilitre of air drawn over the sampler membrane (**C**)
g, kg	Mass, e.g. of whole sample (**M**) or asbestos-containing find within the sample (**m**)
g/kg	Concentration in grams per kilogram
L, mL	Volume, e.g. of air as measured in AFM (**V** = **r** x **t**)
L/min	Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (**r**)
min	Time (**t**), e.g. of air sample collection period

Calculations

Airborne Fibre Concentration: $C = \left(\frac{A}{a}\right) \times \left(\frac{N}{n}\right) \times \left(\frac{1}{r}\right) \times \left(\frac{1}{t}\right) = K \times \left(\frac{N}{n}\right) \times \left(\frac{1}{V}\right)$

Asbestos Content (as asbestos): $\%\, w/w = \frac{(m \times P_A)}{M}$

Weighted Average (of asbestos): $\%_{WA} = \sum \frac{(m \times P_A)_x}{x}$

Terms

%asbestos	Estimated percentage of asbestos in a given matrix. May be derived from knowledge or experience of the material, informed by HSG264 *Appendix 2*, else assumed to be 15% in accordance with WA DOH *Appendix 2* (**P_A**).
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded (non-friable) condition. For the purposes of the NEPM and WA DOH, ACM corresponds to material larger than 7 mm x 7 mm.
AF	Asbestos Fines. Asbestos contamination within a soil sample, as defined by WA DOH. Includes loose fibre bundles and small pieces of friable and non-friable material such as asbestos cement fragments mixed with soil. Considered under the NEPM as equivalent to “non-bonded / friable”.
AFM	Airborne Fibre Monitoring, e.g. by the MFM.
Amosite	Amosite Asbestos Detected. Amosite may also refer to Fibrous Grunerite or Brown Asbestos. Identified in accordance with AS 4964-2004.
AS	Australian Standard.
Asbestos Content (as asbestos)	Total % w/w asbestos content in asbestos-containing finds in a soil sample (**% w/w)**.
Chrysotile	Chrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in accordance with AS 4964-2004.
COC	Chain of Custody.
Crocidolite	Crocidolite Asbestos Detected. Crocidolite may also refer to Fibrous Riebeckite or Blue Asbestos. Identified in accordance with AS 4964-2004.
Dry	Sample is dried by heating prior to analysis.
DS	Dispersion Staining. Technique required for Unequivocal Identification of asbestos fibres by PLM.
FA	Fibrous Asbestos. Asbestos containing material that is wholly or in part friable, including materials with higher asbestos content with a propensity to become friable with handling, and any material that was previously non-friable and in a severely degraded condition. For the purposes of the NEPM and WA DOH, FA generally corresponds to material larger than 7 mm x 7 mm, although FA may be more difficult to visibly distinguish and may be assessed as AF.
Fibre Count	Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003
Fibre ID	Fibre Identification. Unequivocal identification of asbestos fibres according to AS 4964-2004. Includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos.
Friable	Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory’s remit to assess degree of friability.
HSG248	UK HSE HSG248, *Asbestos: The Analysts Guide*, 2nd Edition (2021).
HSG264	UK HSE HSG264, *Asbestos: The Survey Guide* (2012).
ISO (also ISO/IEC)	International Organization for Standardization / International Electrotechnical Commission.
K Factor	Microscope constant (**K**) as derived from the effective filter area of the given AFM membrane used for collecting the sample (**A**) and the projected eyepiece graticule area of the specific microscope used for the analysis (**a**).
LOR	Limit of Reporting.
MFM (also NOHSC:3003)	Membrane Filter Method. As described by the Australian Government National Occupational Health and Safety Commission, *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres*, 2nd Edition [NOHSC:3003(2005)].
NEPM (also ASC NEPM)	National Environment Protection (Assessment of Site Contamination) Measure, (2013, as amended).
Organic	Organic Fibres Detected. Organic may refer to Natural or Man-Made Polymeric Fibres. Identified in accordance with AS 4964-2004.
PCM	Phase Contrast Microscopy. As used for Fibre Counting according to the MFM.
PLM	Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 4964-2004.
Sampling	Unless otherwise stated Eurofins are not responsible for sampling equipment or the sampling process.
SMF	Synthetic Mineral Fibre Detected. SMF may also refer to Man Made Vitreous Fibres. Identified in accordance with AS 4964-2004.
SRA	Sample Receipt Advice.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix.
UK HSE HSG	United Kingdom, Health and Safety Executive, Health and Safety Guidance, publication.
UMF	Unidentified Mineral Fibre Detected. Fibrous minerals that are detected but have not been unequivocally identified by PLM with DS according the AS 4964-2004. May include (but not limited to) Actinolite, Anthophyllite or Tremolite asbestos.
WA DOH	Reference document for the NEPM. Government of Western Australia, *Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia* (updated 2021), including Appendix Four: *Laboratory analysis*
Weighted Average	Combined average % w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (**$\%_{WA}$**).

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	N/A
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Asbestos Counter/Identifier:

Sayeed Abu	Senior Analyst-Asbestos

Authorised by:

Chamath JHM Annakkage	Senior Analyst-Asbestos

Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

Eurofins shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

Chain of Custody

JBS&G

PROJECT NO.: 62236
PROJECT NAME: GREEN SQUARE STAGE 3 & 4
DATE NEEDED BY: STANDARD
LABORATORY BATCH NO.:
SAMPLERS: LAYMOND CHU
QC LEVEL: NEPM (2013)
PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) CDAGGER@jbsg.com.au; (3) A.J.SMITH@jbsg.com.au LCHU@JBSG.COM.AU; AHOLLAND@JBSG.COM.AU
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
AQ001_1	SOIL	17/3/23		BAG.			X	
2	↓	↓		↓			X	
3							X	
4							X	
5							X	
6							X	
7							X	
8							X	
9							X	
10							X	
11							X	
12							X	
13							X	
14							X	
QC15	↓	↓		↓			X	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: L. CHU DATE: 17/3/23 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: DATE: 21/3 5:20 OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ~~21.9~~ deg C 21.4
NAME: DATE: OF:	CONSIGNMENT NOTE NO. TRANSPORT CO	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

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974623

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www.eurofins.com.au EnviroSales@eurofins.com

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IANZ# 1290

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Christopher Dagger
Project name:	GREEN SQUARE STAGE 3 & 4
Project ID:	62236
Turnaround time:	5 Day
Date/Time received	Mar 21, 2023 5:20 PM
Eurofins reference	974623

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	Sample Temperature of chilled sample on the batch as recorded by Eurofins Sample Receipt : 21.4 degrees Celsius.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
✗	Split sample sent to requested external lab.
✗	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Andrew Black on phone : (+61) 2 9900 8490 or by email: AndrewBlack@eurofins.com

Results will be delivered electronically via email to Christopher Dagger - cdagger@jbsg.com.au.

Global Leader - Results you can trust

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Project Name: GREEN SQUARE STAGE 3 & 4
Project ID: 62236

Order No.:
Report #: 974623
Phone: 02 8245 0300
Fax:

Received: Mar 21, 2023 5:20 PM
Due: Mar 28, 2023
Priority: 5 Day
Contact Name: Christopher Dagger

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	AQ001_1	Mar 17, 2023		Soil	S23-Ma0054917	X
2	AQ001_2	Mar 17, 2023		Soil	S23-Ma0054918	X
3	AQ001_3	Mar 17, 2023		Soil	S23-Ma0054919	X
4	AQ001_4	Mar 17, 2023		Soil	S23-Ma0054920	X
5	AQ001_5	Mar 17, 2023		Soil	S23-Ma0054921	X
6	AQ001_6	Mar 17, 2023		Soil	S23-Ma0054922	X
7	AQ001_7	Mar 17, 2023		Soil	S23-Ma0054923	X
8	AQ001_8	Mar 17, 2023		Soil	S23-Ma0054924	X
9	AQ001_9	Mar 17, 2023		Soil	S23-Ma0054925	X
10	AQ001_10	Mar 17, 2023		Soil	S23-Ma0054926	X
11	AQ001_11	Mar 17, 2023		Soil	S23-Ma0054927	X
12	AQ001_12	Mar 17, 2023		Soil	S23-Ma0054928	X
13	AQ001_13	Mar 17, 2023		Soil	S23-Ma0054929	X

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NATA# 1261 Site# 1254	NATA# 1261 Site# 25403	NATA# 1261 Site# 18217	NATA# 1261 Site# 25466	NATA# 1261 Site# 20794	Site# 25079 & 25289

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Project Name: GREEN SQUARE STAGE 3 & 4
Project ID: 62236

Order No.:
Report #: 974623
Phone: 02 8245 0300
Fax:

Received: Mar 21, 2023 5:20 PM
Due: Mar 28, 2023
Priority: 5 Day
Contact Name: Christopher Dagger

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
14	AQ001_14	Mar 17, 2023		Soil	S23-Ma0054930	X
15	QC15	Mar 17, 2023		Soil	S23-Ma0054931	X
Test Counts						15

Certificate of Analysis

Environment Testing

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025–Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
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NSW 2000

Attention:	Christopher Dagger
Report	974623-AID
Project Name	GREEN SQUARE STAGE 3 & 4
Project ID	62236
Received Date	Mar 21, 2023
Date Reported	Mar 28, 2023

Methodology:

Asbestos Fibre Identification	Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques. *NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.*
Unknown Mineral Fibres	Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity. *NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.*
Subsampling Soil Samples	The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed. *NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.*
Bonded asbestos-containing material (ACM)	The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination.The resultant material is then further examined in accordance with AS 4964 - 2004. *NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.*
Limit of Reporting	The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w). The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk). *NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos".This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.*

Project Name GREEN SQUARE STAGE 3 & 4
Project ID 62236
Date Sampled Mar 17, 2023
Report 974623-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
AQ001_1	23-Ma0054917	Mar 17, 2023	Approximate Sample 695g Sample consisted of: Brown coarse-grained soil, bitumen, cement, glass and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ001_2	23-Ma0054918	Mar 17, 2023	Approximate Sample 604g Sample consisted of: Brown fine-grained clayey soil, cement, bitumen, glass and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ001_3	23-Ma0054919	Mar 17, 2023	Approximate Sample 689g Sample consisted of: Brown coarse-grained soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ001_4	23-Ma0054920	Mar 17, 2023	Approximate Sample 875g Sample consisted of: Brown coarse- grained sandy clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ001_5	23-Ma0054921	Mar 17, 2023	Approximate Sample 693g Sample consisted of: Brown coarse- grained sandy clayey soil, bitumen and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ001_6	23-Ma0054922	Mar 17, 2023	Approximate Sample 760g Sample consisted of: Brown fine-grained clayey soil, bitumen and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ001_7	23-Ma0054923	Mar 17, 2023	Approximate Sample 785g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ001_8	23-Ma0054924	Mar 17, 2023	Approximate Sample 830g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
AQ001_9	23-Ma0054925	Mar 17, 2023	Approximate Sample 691g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ001_10	23-Ma0054926	Mar 17, 2023	Approximate Sample 820g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ001_11	23-Ma0054927	Mar 17, 2023	Approximate Sample 796g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ001_12	23-Ma0054928	Mar 17, 2023	Approximate Sample 821g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ001_13	23-Ma0054929	Mar 17, 2023	Approximate Sample 823g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ001_14	23-Ma0054930	Mar 17, 2023	Approximate Sample 720g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
QC15	23-Ma0054931	Mar 17, 2023	Approximate Sample 827g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	Mar 23, 2023	Indefinite

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Fax:

Received: Mar 21, 2023 5:20 PM
Due: Mar 28, 2023
Priority: 5 Day
Contact Name: Christopher Dagger

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	AQ001_1	Mar 17, 2023		Soil	S23-Ma0054917	X
2	AQ001_2	Mar 17, 2023		Soil	S23-Ma0054918	X
3	AQ001_3	Mar 17, 2023		Soil	S23-Ma0054919	X
4	AQ001_4	Mar 17, 2023		Soil	S23-Ma0054920	X
5	AQ001_5	Mar 17, 2023		Soil	S23-Ma0054921	X
6	AQ001_6	Mar 17, 2023		Soil	S23-Ma0054922	X
7	AQ001_7	Mar 17, 2023		Soil	S23-Ma0054923	X
8	AQ001_8	Mar 17, 2023		Soil	S23-Ma0054924	X
9	AQ001_9	Mar 17, 2023		Soil	S23-Ma0054925	X
10	AQ001_10	Mar 17, 2023		Soil	S23-Ma0054926	X
11	AQ001_11	Mar 17, 2023		Soil	S23-Ma0054927	X
12	AQ001_12	Mar 17, 2023		Soil	S23-Ma0054928	X
13	AQ001_13	Mar 17, 2023		Soil	S23-Ma0054929	X

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Project ID: 62236

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Phone: 02 8245 0300
Fax:

Received: Mar 21, 2023 5:20 PM
Due: Mar 28, 2023
Priority: 5 Day
Contact Name: Christopher Dagger

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
14	AQ001_14	Mar 17, 2023		Soil	S23-Ma0054930	X
15	QC15	Mar 17, 2023		Soil	S23-Ma0054931	X
Test Counts						15

Internal Quality Control Review and Glossary General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with the colour **blue** indicates data provided by customer that may have an impact on the results.
5. This report replaces any interim results previously issued.

Holding Times

Please refer to the most recent version of the 'Sample Preservation and Container Guide' for holding times (QS3001).
If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

% w/w:	Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples (**% w/w**)
F/fld	Airborne fibre filter loading as Fibres (**N**) per Fields counted (**n**)
F/mL	Airborne fibre reported concentration as Fibres per millilitre of air drawn over the sampler membrane (**C**)
g, kg	Mass, e.g. of whole sample (**M**) or asbestos-containing find within the sample (**m**)
g/kg	Concentration in grams per kilogram
L, mL	Volume, e.g. of air as measured in AFM (**V** = **r** x **t**)
L/min	Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (**r**)
min	Time (**t**), e.g. of air sample collection period

Calculations

Airborne Fibre Concentration: $C = \left(\frac{A}{a}\right) \times \left(\frac{N}{n}\right) \times \left(\frac{1}{r}\right) \times \left(\frac{1}{t}\right) = K \times \left(\frac{N}{n}\right) \times \left(\frac{1}{V}\right)$

Asbestos Content (as asbestos): $\%\, w/w = \frac{(m \times P_A)}{M}$

Weighted Average (of asbestos): $\%_{WA} = \sum \frac{(m \times P_A)_x}{x}$

Terms

%asbestos	Estimated percentage of asbestos in a given matrix. May be derived from knowledge or experience of the material, informed by HSG264 *Appendix 2*, else assumed to be 15% in accordance with WA DOH *Appendix 2* (**P_A**).
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded (non-friable) condition. For the purposes of the NEPM and WA DOH, ACM corresponds to material larger than 7 mm x 7 mm.
AF	Asbestos Fines. Asbestos contamination within a soil sample, as defined by WA DOH. Includes loose fibre bundles and small pieces of friable and non-friable material such as asbestos cement fragments mixed with soil. Considered under the NEPM as equivalent to “non-bonded / friable”.
AFM	Airborne Fibre Monitoring, e.g. by the MFM.
Amosite	Amosite Asbestos Detected. Amosite may also refer to Fibrous Grunerite or Brown Asbestos. Identified in accordance with AS 4964-2004.
AS	Australian Standard.
Asbestos Content (as asbestos)	Total % w/w asbestos content in asbestos-containing finds in a soil sample (**% w/w)**.
Chrysotile	Chrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in accordance with AS 4964-2004.
COC	Chain of Custody.
Crocidolite	Crocidolite Asbestos Detected. Crocidolite may also refer to Fibrous Riebeckite or Blue Asbestos. Identified in accordance with AS 4964-2004.
Dry	Sample is dried by heating prior to analysis.
DS	Dispersion Staining. Technique required for Unequivocal Identification of asbestos fibres by PLM.
FA	Fibrous Asbestos. Asbestos containing material that is wholly or in part friable, including materials with higher asbestos content with a propensity to become friable with handling, and any material that was previously non-friable and in a severely degraded condition. For the purposes of the NEPM and WA DOH, FA generally corresponds to material larger than 7 mm x 7 mm, although FA may be more difficult to visibly distinguish and may be assessed as AF.
Fibre Count	Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003
Fibre ID	Fibre Identification. Unequivocal identification of asbestos fibres according to AS 4964-2004. Includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos.
Friable	Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory’s remit to assess degree of friability.
HSG248	UK HSE HSG248, *Asbestos: The Analysts Guide*, 2nd Edition (2021).
HSG264	UK HSE HSG264, *Asbestos: The Survey Guide* (2012).
ISO (also ISO/IEC)	International Organization for Standardization / International Electrotechnical Commission.
K Factor	Microscope constant (**K**) as derived from the effective filter area of the given AFM membrane used for collecting the sample (**A**) and the projected eyepiece graticule area of the specific microscope used for the analysis (**a**).
LOR	Limit of Reporting.
MFM (also NOHSC:3003)	Membrane Filter Method. As described by the Australian Government National Occupational Health and Safety Commission, *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres*, 2nd Edition [NOHSC:3003(2005)].
NEPM (also ASC NEPM)	National Environment Protection (Assessment of Site Contamination) Measure, (2013, as amended).
Organic	Organic Fibres Detected. Organic may refer to Natural or Man-Made Polymeric Fibres. Identified in accordance with AS 4964-2004.
PCM	Phase Contrast Microscopy. As used for Fibre Counting according to the MFM.
PLM	Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 4964-2004.
Sampling	Unless otherwise stated Eurofins are not responsible for sampling equipment or the sampling process.
SMF	Synthetic Mineral Fibre Detected. SMF may also refer to Man Made Vitreous Fibres. Identified in accordance with AS 4964-2004.
SRA	Sample Receipt Advice.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix.
UK HSE HSG	United Kingdom, Health and Safety Executive, Health and Safety Guidance, publication.
UMF	Unidentified Mineral Fibre Detected. Fibrous minerals that are detected but have not been unequivocally identified by PLM with DS according the AS 4964-2004. May include (but not limited to) Actinolite, Anthophyllite or Tremolite asbestos.
WA DOH	Reference document for the NEPM. Government of Western Australia, *Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia* (updated 2021), including Appendix Four: *Laboratory analysis*
Weighted Average	Combined average % w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (**$\%_{WA}$**).

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Asbestos Counter/Identifier:

Laxman Dias	Senior Analyst-Asbestos

Authorised by:

Chamath JHM Annakkage	Senior Analyst-Asbestos

Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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Chain of Custody

JBS&G

PROJECT NO.: 62276	LABORATORY BATCH NO.:
PROJECT NAME: Green Square Stage 3 & 4	SAMPLERS: L.CHU ; C.DAGGER
DATE NEEDED BY: STANDARD	QC LEVEL: NEPM (2013)

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) CDAGGER@jbsg.com.au; (3) AJSMITH@jbsg.com.au LCHU@JBSG.COM.AU; AHOLLAND@JBSG.COM.AU

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
AQ020_1	Soil	21/3/23		BAG			X	
2							X	
3							X	
4							X	
5							X	
6							X	
QC27							X	
AQ025_1							X	
2							X	
3							X	
4							X	
5							X	
6							X	
AQ027_1							X	
2							X	
3							X	
4							X	
5							X	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: L CHU DATE: 21/3/23.	CONSIGNMENT NOTE NO.	NAME: Rajesh Phillips	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 21/3/23 17:20	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

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974652

Chain of Custody

JBS&G

PROJECT NO.: 62236
PROJECT NAME: Green Square Stg 3 & 4
DATE NEEDED BY: STANDARD
LABORATORY BATCH NO.:
SAMPLERS: L. CHU, C. DAGGER, L. WALE
QC LEVEL: NEPM (2013)
PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) CDAGGER@jbsg.com.au; (3) AJSMITH@jbsg.com.au LCHU@JBSG.com.AU; AHOLLAND@

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
AQ028_1	Soil	21/3/23		BAG			X	
-2							X	
-3							X	
-4							X	
-5							X	
QC29							X	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: L. CHU DATE: 21/3/23	CONSIGNMENT NOTE NO.	NAME: Ryan Phillips	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 21/3/23 17.20	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

974652

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IANZ# 1327

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43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Christopher Dagger
Project name:	GREEN SQUARE STGE 3 & 4
Project ID:	62236
Turnaround time:	5 Day
Date/Time received	Mar 21, 2023 5:20 PM
Eurofins reference	974652

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
N/A	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
✗	Split sample sent to requested external lab.
✗	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Andrew Black on phone : (+61) 2 9900 8490 or by email: AndrewBlack@eurofins.com

Results will be delivered electronically via email to Christopher Dagger - cdagger@jbsg.com.au.

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West NSW 2304
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	Tel: +61 2 4968 8448
Tel: +61 3 8564 5000	Tel: +61 3 8564 5000	Tel: +61 2 9900 8400	Tel: +61 2 6113 8091	Tel: +61 7 3902 4600	NATA# 1261
NATA# 1261 Site# 1254	NATA# 1261 Site# 25403	NATA# 1261 Site# 18217	NATA# 1261 Site# 25466	NATA# 1261 Site# 20794	Site# 25079 & 25289

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IANZ# 1327	IANZ# 1290

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
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NSW 2000

Project Name: GREEN SQUARE STGE 3 & 4
Project ID: 62236

Order No.:
Report #: 974652
Phone: 02 8245 0300
Fax:

Received: Mar 21, 2023 5:20 PM
Due: Mar 28, 2023
Priority: 5 Day
Contact Name: Christopher Dagger

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	AQ020-1	Mar 21, 2023		Soil	S23-Ma0055050	X
2	AQ020-2	Mar 21, 2023		Soil	S23-Ma0055051	X
3	AQ020-3	Mar 21, 2023		Soil	S23-Ma0055052	X
4	AQ020-4	Mar 21, 2023		Soil	S23-Ma0055053	X
5	AQ020-5	Mar 21, 2023		Soil	S23-Ma0055054	X
6	AQ020-6	Mar 21, 2023		Soil	S23-Ma0055055	X
7	QC27	Mar 21, 2023		Soil	S23-Ma0055056	X
8	AQ025-1	Mar 21, 2023		Soil	S23-Ma0055057	X
9	AQ025-2	Mar 21, 2023		Soil	S23-Ma0055058	X
10	AQ025-3	Mar 21, 2023		Soil	S23-Ma0055059	X
11	AQ025-4	Mar 21, 2023		Soil	S23-Ma0055060	X
12	AQ025-5	Mar 21, 2023		Soil	S23-Ma0055061	X
13	AQ025-6	Mar 21, 2023		Soil	S23-Ma0055062	X

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Eurofins Environment Testing Australia Pty Ltd
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VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	Tel: +61 2 4968 8448
Tel: +61 3 8564 5000	Tel: +61 3 8564 5000	Tel: +61 2 9900 8400	Tel: +61 2 6113 8091	Tel: +61 7 3902 4600	NATA# 1261
NATA# 1261 Site# 1254	NATA# 1261 Site# 25403	NATA# 1261 Site# 18217	NATA# 1261 Site# 25466	NATA# 1261 Site# 20794	Site# 25079 & 25289

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Auckland 1061	Christchurch 7675
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IANZ# 1327	IANZ# 1290

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: GREEN SQUARE STGE 3 & 4
Project ID: 62236

Order No.:
Report #: 974652
Phone: 02 8245 0300
Fax:

Received: Mar 21, 2023 5:20 PM
Due: Mar 28, 2023
Priority: 5 Day
Contact Name: Christopher Dagger

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
14	AQ027-1	Mar 21, 2023		Soil	S23-Ma0055063	X
15	AQ027-2	Mar 21, 2023		Soil	S23-Ma0055064	X
16	AQ027-3	Mar 21, 2023		Soil	S23-Ma0055065	X
17	AQ027-4	Mar 21, 2023		Soil	S23-Ma0055066	X
18	AQ027-5	Mar 21, 2023		Soil	S23-Ma0055067	X
19	AQ028-1	Mar 21, 2023		Soil	S23-Ma0055068	X
20	AQ028-2	Mar 21, 2023		Soil	S23-Ma0055069	X
21	AQ028-3	Mar 21, 2023		Soil	S23-Ma0055070	X
22	AQ028-4	Mar 21, 2023		Soil	S23-Ma0055071	X
23	AQ028-5	Mar 21, 2023		Soil	S23-Ma0055072	X
24	QC29	Mar 21, 2023		Soil	S23-Ma0055073	X
Test Counts						24

Certificate of Analysis

Environment Testing

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025–Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention:	Christopher Dagger
Report	974652-AID-V2
Project Name	GREEN SQUARE STGE 3 & 4
Project ID	62236
Received Date	Mar 21, 2023
Date Reported	Mar 30, 2023

Methodology:

Asbestos Fibre Identification	Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques. *NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.*
Unknown Mineral Fibres	Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity. *NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.*
Subsampling Soil Samples	The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed. *NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.*
Bonded asbestos-containing material (ACM)	The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination.The resultant material is then further examined in accordance with AS 4964 - 2004. *NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.*
Limit of Reporting	The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w). The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk). *NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos".This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.*

Project Name GREEN SQUARE STGE 3 & 4
Project ID 62236
Date Sampled Mar 21, 2023
Report 974652-AID-V2

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
AQ020-1	23-Ma0055050	Mar 21, 2023	Approximate Sample 678g Sample consisted of: Brown coarse-grained sandy soil, bitumen, glass and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ020-2	23-Ma0055051	Mar 21, 2023	Approximate Sample 641g Sample consisted of: Brown fine-grained clayey soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ020-3	23-Ma0055052	Mar 21, 2023	Approximate Sample 608g Sample consisted of: Brown fine-grained clayey soil, bitumen, cement, plaster and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ020-4	23-Ma0055053	Mar 21, 2023	Approximate Sample 708g Sample consisted of: Brown coarse- grained sandy clayey soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ020-5	23-Ma0055054	Mar 21, 2023	Approximate Sample 912g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ020-6	23-Ma0055055	Mar 21, 2023	Approximate Sample 523g Sample consisted of: Brown coarse-grained soil, glass, cement, bitumen and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
QC27	23-Ma0055056	Mar 21, 2023	Approximate Sample 761g Sample consisted of: Brown coarse-grained soil, cement, brick, glass and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ025-1	23-Ma0055057	Mar 21, 2023	Approximate Sample 588g Sample consisted of: Brown coarse-grained soil, cement, brick, glass and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
AQ025-2	23-Ma0055058	Mar 21, 2023	Approximate Sample 634g Sample consisted of: Brown coarse-grained soil, bitumen, brick, plaster, cement and rocks	FA: Chrysotile asbestos detected in weathered fibre cement fragments. Approximate raw weight of FA = 0.0071g Estimated asbestos content in FA = 0.0043g* AF: Chrysotile and crocidolite asbestos detected in fibre cement fragments and in the form of loose fibres. Approximate raw weight of AF = 0.047g* Estimated asbestos content in AF = 0.0094g* Total estimated asbestos content in FA and AF = 0.014g* Total estimated asbestos concentration in FA and AF = 0.0022% w/w* Organic fibre detected. No trace asbestos detected.
AQ025-3	23-Ma0055059	Mar 21, 2023	Approximate Sample 750g Sample consisted of: Brown coarse-grained sandy soil, brick, cement, corroded metal, bitumen and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ025-4	23-Ma0055060	Mar 21, 2023	Approximate Sample 708g Sample consisted of: Brown coarse- grained sandy clayey soil, glass, brick, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ025-5	23-Ma0055061	Mar 21, 2023	Approximate Sample 723g Sample consisted of: Brown coarse- grained sandy clayey soil, brick, bitumen, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ025-6	23-Ma0055062	Mar 21, 2023	Approximate Sample 561g Sample consisted of: Brown coarse- grained sandy clayey soil, glass, plaster, brick and rocks	AF: Chrysotile and crocidolite asbestos detected in fibre cement material. Approximate raw weight of AF = 0.051g* Estimated asbestos content in AF = 0.0051g* Total estimated asbestos concentration in AF = 0.00091% w/w* No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ027-1	23-Ma0055063	Mar 21, 2023	Approximate Sample 702g Sample consisted of: Brown coarse- grained sandy clayey soil, coal, brick, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ027-2	23-Ma0055064	Mar 21, 2023	Approximate Sample 649g Sample consisted of: Brown coarse- grained sandy clayey soil, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
AQ027-3	23-Ma0055065	Mar 21, 2023	Approximate Sample 678g Sample consisted of: Brown coarse- grained sandy clayey soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ027-4	23-Ma0055066	Mar 21, 2023	Approximate Sample 659g Sample consisted of: Brown coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ027-5	23-Ma0055067	Mar 21, 2023	Approximate Sample 431g Sample consisted of: Brown fine-grained clayey soil, coal and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ028-1	23-Ma0055068	Mar 21, 2023	Approximate Sample 609g Sample consisted of: Brown coarse-grained soil, brick, glass and rocks	FA: Chrysotile asbestos detected in weathered fibre cement fragments. Approximate raw weight of FA = 0.020g Estimated asbestos content in FA = 0.012g* Total estimated asbestos concentration in FA = 0.0020% w/w* Organic fibre detected. No trace asbestos detected.
AQ028-2	23-Ma0055069	Mar 21, 2023	Approximate Sample 471g Sample consisted of: Brown coarse-grained soil, plaster, coal, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ028-3	23-Ma0055070	Mar 21, 2023	Approximate Sample 833g Sample consisted of: Brown coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ028-4	23-Ma0055071	Mar 21, 2023	Approximate Sample 738g Sample consisted of: Brown coarse- grained sandy clayey soil, glass, bitumen, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
AQ028-5	23-Ma0055072	Mar 21, 2023	Approximate Sample 945g Sample consisted of: Brown coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
QC29	23-Ma0055073	Mar 21, 2023	Approximate Sample 588g Sample consisted of: Brown coarse-grained soil, glass, brick, coal and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	Mar 23, 2023	Indefinite

eurofins

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email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
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Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West NSW 2304
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	Tel: +61 2 4968 8448
Tel: +61 3 8564 5000	Tel: +61 3 8564 5000	Tel: +61 2 9900 8400	Tel: +61 2 6113 8091	Tel: +61 7 3902 4600	NATA# 1261
NATA# 1261 Site# 1254	NATA# 1261 Site# 25403	NATA# 1261 Site# 18217	NATA# 1261 Site# 25466	NATA# 1261 Site# 20794	Site# 25079 & 25289

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NATA# 2377 Site# 2370

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Penrose,	Rolleston,
Auckland 1061	Christchurch 7675
Tel: +64 9 526 45 51	Tel: 0800 856 450
IANZ# 1327	IANZ# 1290

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: GREEN SQUARE STGE 3 & 4
Project ID: 62236

Order No.:
Report #: 974652
Phone: 02 8245 0300
Fax:

Received: Mar 21, 2023 5:20 PM
Due: Mar 28, 2023
Priority: 5 Day
Contact Name: Christopher Dagger

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	AQ020-1	Mar 21, 2023		Soil	S23-Ma0055050	X
2	AQ020-2	Mar 21, 2023		Soil	S23-Ma0055051	X
3	AQ020-3	Mar 21, 2023		Soil	S23-Ma0055052	X
4	AQ020-4	Mar 21, 2023		Soil	S23-Ma0055053	X
5	AQ020-5	Mar 21, 2023		Soil	S23-Ma0055054	X
6	AQ020-6	Mar 21, 2023		Soil	S23-Ma0055055	X
7	QC27	Mar 21, 2023		Soil	S23-Ma0055056	X
8	AQ025-1	Mar 21, 2023		Soil	S23-Ma0055057	X
9	AQ025-2	Mar 21, 2023		Soil	S23-Ma0055058	X
10	AQ025-3	Mar 21, 2023		Soil	S23-Ma0055059	X
11	AQ025-4	Mar 21, 2023		Soil	S23-Ma0055060	X
12	AQ025-5	Mar 21, 2023		Soil	S23-Ma0055061	X
13	AQ025-6	Mar 21, 2023		Soil	S23-Ma0055062	X

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NATA# 1261
Site# 25079 & 25289

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
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NSW 2000

Project Name: GREEN SQUARE STGE 3 & 4
Project ID: 62236

Order No.:
Report #: 974652
Phone: 02 8245 0300
Fax:

Received: Mar 21, 2023 5:20 PM
Due: Mar 28, 2023
Priority: 5 Day
Contact Name: Christopher Dagger

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
14	AQ027-1	Mar 21, 2023		Soil	S23-Ma0055063	X
15	AQ027-2	Mar 21, 2023		Soil	S23-Ma0055064	X
16	AQ027-3	Mar 21, 2023		Soil	S23-Ma0055065	X
17	AQ027-4	Mar 21, 2023		Soil	S23-Ma0055066	X
18	AQ027-5	Mar 21, 2023		Soil	S23-Ma0055067	X
19	AQ028-1	Mar 21, 2023		Soil	S23-Ma0055068	X
20	AQ028-2	Mar 21, 2023		Soil	S23-Ma0055069	X
21	AQ028-3	Mar 21, 2023		Soil	S23-Ma0055070	X
22	AQ028-4	Mar 21, 2023		Soil	S23-Ma0055071	X
23	AQ028-5	Mar 21, 2023		Soil	S23-Ma0055072	X
24	QC29	Mar 21, 2023		Soil	S23-Ma0055073	X
Test Counts						24

Internal Quality Control Review and Glossary General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with the colour **blue** indicates data provided by customer that may have an impact on the results.
5. This report replaces any interim results previously issued.

Holding Times

Please refer to the most recent version of the 'Sample Preservation and Container Guide' for holding times (QS3001).
If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

% w/w:	Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples (**% w/w**)
F/fld	Airborne fibre filter loading as Fibres (**N**) per Fields counted (**n**)
F/mL	Airborne fibre reported concentration as Fibres per millilitre of air drawn over the sampler membrane (**C**)
g, kg	Mass, e.g. of whole sample (**M**) or asbestos-containing find within the sample (**m**)
g/kg	Concentration in grams per kilogram
L, mL	Volume, e.g. of air as measured in AFM (**V** = **r** x **t**)
L/min	Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (**r**)
min	Time (**t**), e.g. of air sample collection period

Calculations

Airborne Fibre Concentration: $C = \left(\frac{A}{a}\right) \times \left(\frac{N}{n}\right) \times \left(\frac{1}{r}\right) \times \left(\frac{1}{t}\right) = K \times \left(\frac{N}{n}\right) \times \left(\frac{1}{V}\right)$

Asbestos Content (as asbestos): $\%\, w/w = \frac{(m \times P_A)}{M}$

Weighted Average (of asbestos): $\%_{WA} = \sum \frac{(m \times P_A)_x}{x}$

Terms

%asbestos	Estimated percentage of asbestos in a given matrix. May be derived from knowledge or experience of the material, informed by HSG264 *Appendix 2*, else assumed to be 15% in accordance with WA DOH *Appendix 2* (**P_A**).
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded (non-friable) condition. For the purposes of the NEPM and WA DOH, ACM corresponds to material larger than 7 mm x 7 mm.
AF	Asbestos Fines. Asbestos contamination within a soil sample, as defined by WA DOH. Includes loose fibre bundles and small pieces of friable and non-friable material such as asbestos cement fragments mixed with soil. Considered under the NEPM as equivalent to “non-bonded / friable”.
AFM	Airborne Fibre Monitoring, e.g. by the MFM.
Amosite	Amosite Asbestos Detected. Amosite may also refer to Fibrous Grunerite or Brown Asbestos. Identified in accordance with AS 4964-2004.
AS	Australian Standard.
Asbestos Content (as asbestos)	Total % w/w asbestos content in asbestos-containing finds in a soil sample (**% w/w)**.
Chrysotile	Chrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in accordance with AS 4964-2004.
COC	Chain of Custody.
Crocidolite	Crocidolite Asbestos Detected. Crocidolite may also refer to Fibrous Riebeckite or Blue Asbestos. Identified in accordance with AS 4964-2004.
Dry	Sample is dried by heating prior to analysis.
DS	Dispersion Staining. Technique required for Unequivocal Identification of asbestos fibres by PLM.
FA	Fibrous Asbestos. Asbestos containing material that is wholly or in part friable, including materials with higher asbestos content with a propensity to become friable with handling, and any material that was previously non-friable and in a severely degraded condition. For the purposes of the NEPM and WA DOH, FA generally corresponds to material larger than 7 mm x 7 mm, although FA may be more difficult to visibly distinguish and may be assessed as AF.
Fibre Count	Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003
Fibre ID	Fibre Identification. Unequivocal identification of asbestos fibres according to AS 4964-2004. Includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos.
Friable	Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory’s remit to assess degree of friability.
HSG248	UK HSE HSG248, *Asbestos: The Analysts Guide*, 2nd Edition (2021).
HSG264	UK HSE HSG264, *Asbestos: The Survey Guide* (2012).
ISO (also ISO/IEC)	International Organization for Standardization / International Electrotechnical Commission.
K Factor	Microscope constant (**K**) as derived from the effective filter area of the given AFM membrane used for collecting the sample (**A**) and the projected eyepiece graticule area of the specific microscope used for the analysis (**a**).
LOR	Limit of Reporting.
MFM (also NOHSC:3003)	Membrane Filter Method. As described by the Australian Government National Occupational Health and Safety Commission, *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres*, 2nd Edition [NOHSC:3003(2005)].
NEPM (also ASC NEPM)	National Environment Protection (Assessment of Site Contamination) Measure, (2013, as amended).
Organic	Organic Fibres Detected. Organic may refer to Natural or Man-Made Polymeric Fibres. Identified in accordance with AS 4964-2004.
PCM	Phase Contrast Microscopy. As used for Fibre Counting according to the MFM.
PLM	Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 4964-2004.
Sampling	Unless otherwise stated Eurofins are not responsible for sampling equipment or the sampling process.
SMF	Synthetic Mineral Fibre Detected. SMF may also refer to Man Made Vitreous Fibres. Identified in accordance with AS 4964-2004.
SRA	Sample Receipt Advice.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix.
UK HSE HSG	United Kingdom, Health and Safety Executive, Health and Safety Guidance, publication.
UMF	Unidentified Mineral Fibre Detected. Fibrous minerals that are detected but have not been unequivocally identified by PLM with DS according the AS 4964-2004. May include (but not limited to) Actinolite, Anthophyllite or Tremolite asbestos.
WA DOH	Reference document for the NEPM. Government of Western Australia, *Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia* (updated 2021), including Appendix Four: *Laboratory analysis*
Weighted Average	Combined average % w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (**$\%_{WA}$**).

Comments

V2- new version to amend attempted to chill comment to N/A since not applicable for asbestos samples.

23-Ma0055067 and 23-Ma0055069: Samples received were less than the nominal 500mL as recommended in Section 4.10 of the NEPM Schedule B1 - Guideline on Investigation Levels for Soil and Groundwater.

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	N/A
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Asbestos Counter/Identifier:

Laxman Dias	Senior Analyst-Asbestos

Authorised by:

Chamath JHM Annakkage	Senior Analyst-Asbestos

Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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FW: Green square 62236 972947

Andrew Black <AndrewBlack@eurofins.com>
Wed 2023-03-29 6:05 PM
To: #AU25_Enviro_Sample_NSW <EnviroSampleNSW@eurofins.com>

INFO: INTERNAL EMAIL - Sent from your own Eurofins email domain.

Urgent 1 day TAT additional thanks team for AsbWA on this sample that was put on hold for some reason.

Andrew Black
Analytical Services Manager

Eurofins | Environment Testing Australia Pty Ltd
Phone: +61 2 9900 8490
Mobile: +61 410 220 750
Email: AndrewBlack@eurofins.com
Website: eurofins.com.au/environmental-testing

PLEASE NOTE: As of the 19th of December, please ensure all samples are delivered to our new site at:
Building 1 / 2 Frost Drive, Mayfield West.

This e-mail including its attachments may contain confidential and proprietary information. Any unauthorized disclosure or use of this e-mail including its attachments is prohibited and may be prosecuted. If you are not the intended recipient, please inform the sender by an e-mail reply and delete the message.
Transmission by e-mail is not secure and can result in errors or omissions in the content of the message. Despite state-of-the-art precautions we cannot guarantee that e-mails and attachments are free from viruses. We accept no liability for viruses or any transmission-related errors and omissions. You need to always virus-check any e-mails and attachments.
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For sample receipt enquiries (eg. SRAs, changes to analysis) please contact EnvirosampleNSW@eurofins.com or 02 9900 8421 (7am – 9pm).
For despatch enquiries (eg. courier bookings, bottle orders) please contact AU04_Despatch_SYD@eurofins.com or 0488 400 929 (8am – 4pm).

From: Christopher Dagger <cdagger@jbsg.com.au>
Sent: Wednesday, 29 March 2023 5:15 PM
To: Andrew Black <AndrewBlack@eurofins.com>
Subject: RE: Green square 62236

CAUTION: EXTERNAL EMAIL - Sent from an email domain that is not formally trusted by Eurofins.

Do not click on links or open attachments unless you recognise the sender and are certain that the content is safe.

Hey mate,

Lab batch 972947 has listed sample AQ002-8 as on hold, although the COC has requested analysis.

Could I please get this sample run ensuring delivery by 31st (lunch)

Chris Dagger | Senior Environmental Consultant | JBS&G
Gadigal Country | Level 1, 50 Margaret Street, Sydney, NSW
T: 02 8245 0300 | M: 0447 490 001 | E: cdagger@jbsg.com.au | W: jbsg.com.au | L: Conditions and Limitations

Exceptional Outcomes

From: Christopher Dagger
Sent: Wednesday, March 29, 2023 4:41 PM
To: Andrew Black <AndrewBlack@eurofins.com>
Subject: RE: Green square 62236

975042

Chris Dagger | Senior Environmental Consultant | JBS&G
Gadigal Country | Level 1, 50 Margaret Street, Sydney, NSW
T: 02 8245 0300 | M: 0447 490 001 | E: cdagger@jbsg.com.au | W: jbsg.com.au | L: Conditions and Limitations

Exceptional Outcomes

From: Andrew Black <AndrewBlack@eurofins.com>
Sent: Wednesday, March 29, 2023 4:39 PM
To: Christopher Dagger <cdagger@jbsg.com.au>
Subject: RE: Green square 62236

[EXTERNAL EMAIL]** Stop and think before opening attachments, clicking or responding.*

What report do these belong to Chris?

Andrew Black
Analytical Services Manager

Eurofins | Environment Testing Australia Pty Ltd
1 / 2 Frost Drive
Mayfield West, NSW, 2304
Phone: +61 2 9900 8490
Mobile: +61 410 220 750
Email: AndrewBlack@eurofins.com
Website: eurofins.com.au/environmental-testing

PLEASE NOTE: As of the 19th of December, please ensure all samples are delivered to our new site at:
Building 1 / 2 Frost Drive, Mayfield West.

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Transmission by e-mail is not secure and can result in errors or omissions in the content of the message. Despite state-of-the-art precautions we cannot guarantee that e-mails and attachments are free from viruses. We accept no liability for viruses or any transmission-related errors and omissions. You need to always virus-check any e-mails and attachments.
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For sample receipt enquiries (eg. SRAs, changes to analysis) please contact EnvirosampleNSW@eurofins.com or 02 9900 8421 (7am – 9pm).
For despatch enquiries (eg. courier bookings, bottle orders) please contact AU04_Despatch_SYD@eurofins.com or 0488 400 929 (8am – 4pm).

From: Christopher Dagger <cdagger@jbsg.com.au>
Sent: Wednesday, 29 March 2023 4:38 PM
To: Andrew Black <AndrewBlack@eurofins.com>
Subject: Green square 62236

CAUTION: EXTERNAL EMAIL - Sent from an email domain that is not formally trusted by Eurofins.

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Hey mate could I also get sample ID

- AQ064_6
- AQ064_7
- QC26
- QC28

Scheduled for Asbestos WA for a delivery 31st (lunch)

Chris.

Chris Dagger | Senior Environmental Consultant | JBS&G
Gadigal Country | Level 1, 50 Margaret Street, Sydney, NSW
T: 02 8245 0300 | M: 0447 490 001 | E: cdagger@jbsg.com.au | W: jbsg.com.au | L: Conditions and Limitations

Exceptional Outcomes

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IANZ# 1327	IANZ# 1290

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Christopher Dagger
Project name:	ADDITIONAL - GREEN SQUARE STAGE 3 & 4 AQ
Project ID:	ADDITIONAL - 62236
Turnaround time:	1 Day
Date/Time received	Mar 29, 2023 6:05 PM
Eurofins reference	976584

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
N/A	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
✗	Split sample sent to requested external lab.
✗	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Samples received by the laboratory after 5.30pm are deemed to have been received the following working day.

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Andrew Black on phone : (+61) 2 9900 8490 or by email: AndrewBlack@eurofins.com

Results will be delivered electronically via email to Christopher Dagger - cdagger@jbsg.com.au.

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

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VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	Tel: +61 2 4968 8448
Tel: +61 3 8564 5000	Tel: +61 3 8564 5000	Tel: +61 2 9900 8400	Tel: +61 2 6113 8091	Tel: +61 7 3902 4600	NATA# 1261
NATA# 1261 Site# 1254	NATA# 1261 Site# 25403	NATA# 1261 Site# 18217	NATA# 1261 Site# 25466	NATA# 1261 Site# 20794	Site# 25079 & 25289

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IANZ# 1327	IANZ# 1290

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: ADDITIONAL - GREEN SQUARE STAGE 3 & 4 AQ
Project ID: ADDITIONAL - 62236

Order No.:
Report #: 976584
Phone: 02 8245 0300
Fax:

Received: Mar 29, 2023 6:05 PM
Due: Mar 30, 2023
Priority: 1 Day
Contact Name: Christopher Dagger

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	AQ002-8	Mar 15, 2023		Soil	S23-Ma0070770	X
Test Counts						1

Certificate of Analysis

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NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025–Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention:	Christopher Dagger
Report	976584-AID
Project Name	ADDITIONAL - GREEN SQUARE STAGE 3 & 4 AQ
Project ID	ADDITIONAL - 62236
Received Date	Mar 29, 2023
Date Reported	Mar 30, 2023

Methodology:

Asbestos Fibre Identification	Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques. *NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.*
Unknown Mineral Fibres	Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity. *NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.*
Subsampling Soil Samples	The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed. *NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.*
Bonded asbestos-containing material (ACM)	The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination.The resultant material is then further examined in accordance with AS 4964 - 2004. *NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.*
Limit of Reporting	The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w). The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk). *NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos".This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.*

Project Name ADDITIONAL - GREEN SQUARE STAGE 3 & 4 AQ
Project ID ADDITIONAL - 62236
Date Sampled Mar 15, 2023
Report 976584-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
AQ002-8	23-Ma0070770	Mar 15, 2023	Approximate Sample 748g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	Mar 29, 2023	Indefinite

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NATA# 1261 Site# 20794

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NATA# 1261
Site# 25079 & 25289

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IANZ# 1327

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Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: ADDITIONAL - GREEN SQUARE STAGE 3 & 4 AQ
Project ID: ADDITIONAL - 62236

Order No.:
Report #: 976584
Phone: 02 8245 0300
Fax:

Received: Mar 29, 2023 6:05 PM
Due: Mar 30, 2023
Priority: 1 Day
Contact Name: Christopher Dagger

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	AQ002-8	Mar 15, 2023		Soil	S23-Ma0070770	X
Test Counts						1

Internal Quality Control Review and Glossary General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with the colour **blue** indicates data provided by customer that may have an impact on the results.
5. This report replaces any interim results previously issued.

Holding Times

Please refer to the most recent version of the 'Sample Preservation and Container Guide' for holding times (QS3001).
If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

% w/w:	Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples (**% w/w**)
F/fld	Airborne fibre filter loading as Fibres (**N**) per Fields counted (**n**)
F/mL	Airborne fibre reported concentration as Fibres per millilitre of air drawn over the sampler membrane (**C**)
g, kg	Mass, e.g. of whole sample (**M**) or asbestos-containing find within the sample (**m**)
g/kg	Concentration in grams per kilogram
L, mL	Volume, e.g. of air as measured in AFM (**V** = **r** x **t**)
L/min	Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (**r**)
min	Time (**t**), e.g. of air sample collection period

Calculations

Airborne Fibre Concentration: $C = \left(\frac{A}{a}\right) \times \left(\frac{N}{n}\right) \times \left(\frac{1}{r}\right) \times \left(\frac{1}{t}\right) = K \times \left(\frac{N}{n}\right) \times \left(\frac{1}{V}\right)$

Asbestos Content (as asbestos): $\%\, w/w = \frac{(m \times P_A)}{M}$

Weighted Average (of asbestos): $\%_{WA} = \sum \frac{(m \times P_A)_x}{x}$

Terms

%asbestos	Estimated percentage of asbestos in a given matrix. May be derived from knowledge or experience of the material, informed by HSG264 *Appendix 2*, else assumed to be 15% in accordance with WA DOH *Appendix 2* (**P_A**).
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded (non-friable) condition. For the purposes of the NEPM and WA DOH, ACM corresponds to material larger than 7 mm x 7 mm.
AF	Asbestos Fines. Asbestos contamination within a soil sample, as defined by WA DOH. Includes loose fibre bundles and small pieces of friable and non-friable material such as asbestos cement fragments mixed with soil. Considered under the NEPM as equivalent to “non-bonded / friable”.
AFM	Airborne Fibre Monitoring, e.g. by the MFM.
Amosite	Amosite Asbestos Detected. Amosite may also refer to Fibrous Grunerite or Brown Asbestos. Identified in accordance with AS 4964-2004.
AS	Australian Standard.
Asbestos Content (as asbestos)	Total % w/w asbestos content in asbestos-containing finds in a soil sample (**% w/w)**.
Chrysotile	Chrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in accordance with AS 4964-2004.
COC	Chain of Custody.
Crocidolite	Crocidolite Asbestos Detected. Crocidolite may also refer to Fibrous Riebeckite or Blue Asbestos. Identified in accordance with AS 4964-2004.
Dry	Sample is dried by heating prior to analysis.
DS	Dispersion Staining. Technique required for Unequivocal Identification of asbestos fibres by PLM.
FA	Fibrous Asbestos. Asbestos containing material that is wholly or in part friable, including materials with higher asbestos content with a propensity to become friable with handling, and any material that was previously non-friable and in a severely degraded condition. For the purposes of the NEPM and WA DOH, FA generally corresponds to material larger than 7 mm x 7 mm, although FA may be more difficult to visibly distinguish and may be assessed as AF.
Fibre Count	Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003
Fibre ID	Fibre Identification. Unequivocal identification of asbestos fibres according to AS 4964-2004. Includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos.
Friable	Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory’s remit to assess degree of friability.
HSG248	UK HSE HSG248, *Asbestos: The Analysts Guide*, 2nd Edition (2021).
HSG264	UK HSE HSG264, *Asbestos: The Survey Guide* (2012).
ISO (also ISO/IEC)	International Organization for Standardization / International Electrotechnical Commission.
K Factor	Microscope constant (**K**) as derived from the effective filter area of the given AFM membrane used for collecting the sample (**A**) and the projected eyepiece graticule area of the specific microscope used for the analysis (**a**).
LOR	Limit of Reporting.
MFM (also NOHSC:3003)	Membrane Filter Method. As described by the Australian Government National Occupational Health and Safety Commission, *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres*, 2nd Edition [NOHSC:3003(2005)].
NEPM (also ASC NEPM)	National Environment Protection (Assessment of Site Contamination) Measure, (2013, as amended).
Organic	Organic Fibres Detected. Organic may refer to Natural or Man-Made Polymeric Fibres. Identified in accordance with AS 4964-2004.
PCM	Phase Contrast Microscopy. As used for Fibre Counting according to the MFM.
PLM	Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 4964-2004.
Sampling	Unless otherwise stated Eurofins are not responsible for sampling equipment or the sampling process.
SMF	Synthetic Mineral Fibre Detected. SMF may also refer to Man Made Vitreous Fibres. Identified in accordance with AS 4964-2004.
SRA	Sample Receipt Advice.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix.
UK HSE HSG	United Kingdom, Health and Safety Executive, Health and Safety Guidance, publication.
UMF	Unidentified Mineral Fibre Detected. Fibrous minerals that are detected but have not been unequivocally identified by PLM with DS according the AS 4964-2004. May include (but not limited to) Actinolite, Anthophyllite or Tremolite asbestos.
WA DOH	Reference document for the NEPM. Government of Western Australia, *Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia* (updated 2021), including Appendix Four: *Laboratory analysis*
Weighted Average	Combined average % w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (**$\%_{WA}$**).

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	N/A
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Asbestos Counter/Identifier:

Bennel Jiri	Senior Analyst-Asbestos

Authorised by:

Chamath JHM Annakkage	Senior Analyst-Asbestos

Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

Eurofins shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

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Site # 1254 & 14271

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NATA # 1261 Site # 18217

Brisbane
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Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Sample Receipt Advice

Company name: **JBS & G (NSW & WA) Pty Ltd**

Contact name: Nathan Cussen
Client job number: ADDITIONAL: GREEN SQUARE ROAD SOUTH 43182
COC number: Not provided
Turn around time: 5 Day
Date/Time received: Jan 22, 2014 9:35 AM
Eurofins | mgt reference: **406276**

Sample information

☑ A detailed list of analytes logged into our LIMS, is included in the attached summary table.

☑ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt Sample Receipt : 7 degrees Celsius.

☑ All samples have been received as described on the above COC.

☑ COC has been completed correctly.

☑ Attempt to chill was evident.

☑ Appropriately preserved sample containers have been used.

☑ All samples were received in good condition.

☑ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.

☑ Organic samples had Teflon liners.

☒ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Notes

Additional from 405478

Contact notes

If you have any questions with respect to these samples please contact:

Jean Heng on Phone : (+61) (2) 9900 8400 or by e.mail: JeanHeng@eurofins.com.au

Results will be delivered electronically via e.mail to Nathan Cussen - ncussen@jbsg.com.au.

Eurofins | mgt Sample Receipt

ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

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Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Order No.:
Report #: 406276
Phone: 02 8245 0300
Fax:

Received: Jan 22, 2014 9:35 AM
Due: Jan 30, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Client Job No.: ADDITIONAL: GREEN SQUARE ROAD SOUTH 43182

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Lead	Polycyclic Aromatic Hydrocarbons	Toxicity Characteristic Leaching Procedure (TCLP)	Metals M8
Laboratory where analysis is conducted									
Melbourne Laboratory - NATA Site # 1254 & 14271									
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794									
External Laboratory									
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**					
FC099 4.5-4.7	Jan 08, 2014		TCLP	S14-Ja09856	X	X	X	X	
FC099 0.2-0.3	Jan 08, 2014		TCLP	S14-Ja09857	X	X		X	
FC100 0.2-0.3	Jan 08, 2014		TCLP	S14-Ja09858	X	X		X	
FC100 4.3-4.5	Jan 08, 2014		TCLP	S14-Ja09859	X			X	X
FC101 3.0-3.2	Jan 08, 2014		TCLP	S14-Ja09860	X			X	X

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Certificate of Analysis

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Nathan Cussen**

Report **406276-L**
Client Reference ADDITIONAL: GREEN SQUARE ROAD SOUTH 43182
Received Date Jan 22, 2014

Client Sample ID **Sample Matrix** **Eurofins | mgt Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**FC099 4.5-4.7** **TCLP** **S14-Ja09856** **Jan 08, 2014**	**FC099 0.2-0.3** **TCLP** **S14-Ja09857** **Jan 08, 2014**	**FC100 0.2-0.3** **TCLP** **S14-Ja09858** **Jan 08, 2014**	**FC100 4.3-4.5** **TCLP** **S14-Ja09859** **Jan 08, 2014**
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.001	mg/L	0.003	-	-	-
Acenaphthylene	0.001	mg/L	0.005	-	-	-
Anthracene	0.001	mg/L	0.001	-	-	-
Benz(a)anthracene	0.001	mg/L	< 0.001	-	-	-
Benzo(a)pyrene	0.001	mg/L	< 0.001	-	-	-
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	< 0.001	-	-	-
Benzo(g.h.i)perylene	0.001	mg/L	< 0.001	-	-	-
Benzo(k)fluoranthene	0.001	mg/L	< 0.001	-	-	-
Chrysene	0.001	mg/L	< 0.001	-	-	-
Dibenz(a.h)anthracene	0.001	mg/L	< 0.001	-	-	-
Fluoranthene	0.001	mg/L	0.001	-	-	-
Fluorene	0.001	mg/L	0.006	-	-	-
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001	-	-	-
Naphthalene	0.001	mg/L	0.085	-	-	-
Phenanthrene	0.001	mg/L	0.008	-	-	-
Pyrene	0.001	mg/L	< 0.001	-	-	-
Total PAH	0.002	mg/L	0.11	-	-	-
2-Fluorobiphenyl (surr.)	1	%	129	-	-	-
p-Terphenyl-d14 (surr.)	1	%	128	-	-	-
Heavy Metals						
Arsenic	0.01	mg/L	-	-	-	< 0.01
Cadmium	0.005	mg/L	-	-	-	0.014
Chromium	0.05	mg/L	-	-	-	< 0.05
Copper	0.05	mg/L	-	-	-	< 0.05
Lead	0.01	mg/L	0.66	0.33	0.03	0.56
Mercury	0.001	mg/L	-	-	-	< 0.001
Nickel	0.05	mg/L	-	-	-	0.08
Zinc	0.05	mg/L	-	-	-	1.3
% Moisture	0.1	%	19	13	8.7	19
Toxicity Characteristic Leaching Procedure (TCLP)						
Leachate Fluid[C01]		comment	1.0	1.0	1.0	1.0
pH (TCLP - HCl addition)	0.1	units	1.8	1.8	1.8	1.8
pH (TCLP - initial)	0.1	units	8.5	9.0	8.5	9.1
pH (TCLP - off)	0.1	units	5.2	5.1	5.8	5.0

Client Sample ID			FC101 3.0-3.2
Sample Matrix			**TCLP**
Eurofins | mgt Sample No.			**S14-Ja09860**
Date Sampled			**Jan 08, 2014**
Test/Reference	LOR	Unit	
Heavy Metals			
Arsenic	0.01	mg/L	< 0.01
Cadmium	0.005	mg/L	< 0.005
Chromium	0.05	mg/L	< 0.05
Copper	0.05	mg/L	< 0.05
Lead	0.01	mg/L	0.03
Mercury	0.001	mg/L	< 0.001
Nickel	0.05	mg/L	< 0.05
Zinc	0.05	mg/L	0.65
% Moisture	0.1	%	21
Toxicity Characteristic Leaching Procedure (TCLP)			
Leachate Fluid[C01]		comment	1.0
pH (TCLP - HCl addition)	0.1	units	1.8
pH (TCLP - initial)	0.1	units	8.7
pH (TCLP - off)	0.1	units	5.0

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Polycyclic Aromatic Hydrocarbons	Sydney	Jan 24, 2014	7 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Metals M8	Sydney	Jan 23, 2014	28 Day
- Method: E022 Acid Extractable metals in Soils & E026 Mercury			
Heavy Metals	Sydney	Jan 23, 2014	180 Day
- Method: E022 Acid Extractable metals in Soils			
% Moisture	Sydney	Jan 23, 2014	0 Day
- Method: E005 Moisture Content			
Toxicity Characteristic Leaching Procedure (TCLP)	Sydney	Jan 23, 2014	0 Day
- Method: E019 TCLP Preparation			

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Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
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Client Job No.: ADDITIONAL: GREEN SQUARE ROAD SOUTH 43182

Order No.:
Report #: 406276
Phone: 02 8245 0300
Fax:

Received: Jan 22, 2014 9:35 AM
Due: Jan 30, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Lead	Polycyclic Aromatic Hydrocarbons	Toxicity Characteristic Leaching Procedure (TCLP)	Metals M8
Laboratory where analysis is conducted									
Melbourne Laboratory - NATA Site # 1254 & 14271									
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794									
External Laboratory									
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**					
FC099 4.5-4.7	Jan 08, 2014		TCLP	S14-Ja09856	X	X	X	X	
FC099 0.2-0.3	Jan 08, 2014		TCLP	S14-Ja09857	X	X		X	
FC100 0.2-0.3	Jan 08, 2014		TCLP	S14-Ja09858	X	X		X	
FC100 4.3-4.5	Jan 08, 2014		TCLP	S14-Ja09859	X			X	X
FC101 3.0-3.2	Jan 08, 2014		TCLP	S14-Ja09860	X			X	X

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

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Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/L	< 0.001			0.001	Pass	
Acenaphthylene	mg/L	< 0.001			0.001	Pass	
Anthracene	mg/L	< 0.001			0.001	Pass	
Benz(a)anthracene	mg/L	< 0.001			0.001	Pass	
Benzo(a)pyrene	mg/L	< 0.001			0.001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.001			0.001	Pass	
Benzo(g.h.i)perylene	mg/L	< 0.001			0.001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.001			0.001	Pass	
Chrysene	mg/L	< 0.001			0.001	Pass	
Dibenz(a.h)anthracene	mg/L	< 0.001			0.001	Pass	
Fluoranthene	mg/L	< 0.001			0.001	Pass	
Fluorene	mg/L	< 0.001			0.001	Pass	
Indeno(1.2.3-cd)pyrene	mg/L	< 0.001			0.001	Pass	
Naphthalene	mg/L	< 0.001			0.001	Pass	
Phenanthrene	mg/L	< 0.001			0.001	Pass	
Pyrene	mg/L	< 0.001			0.001	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.01			0.01	Pass	
Cadmium	mg/L	< 0.005			0.005	Pass	
Chromium	mg/L	< 0.05			0.05	Pass	
Copper	mg/L	< 0.05			0.05	Pass	
Lead	mg/L	< 0.01			0.01	Pass	
Mercury	mg/L	< 0.001			0.001	Pass	
Nickel	mg/L	< 0.05			0.05	Pass	
Zinc	mg/L	< 0.05			0.05	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S14-Ja09745	NCP	%	118			70-130	Pass	
Acenaphthylene	S14-Ja09745	NCP	%	110			70-130	Pass	
Anthracene	S14-Ja09745	NCP	%	115			70-130	Pass	
Benz(a)anthracene	S14-Ja09745	NCP	%	109			70-130	Pass	
Benzo(a)pyrene	S14-Ja09745	NCP	%	123			70-130	Pass	
Benzo(b&j)fluoranthene	S14-Ja09745	NCP	%	111			70-130	Pass	
Benzo(g.h.i)perylene	S14-Ja09745	NCP	%	102			70-130	Pass	
Benzo(k)fluoranthene	S14-Ja09745	NCP	%	123			70-130	Pass	
Chrysene	S14-Ja09745	NCP	%	120			70-130	Pass	
Dibenz(a.h)anthracene	S14-Ja09745	NCP	%	101			70-130	Pass	
Fluoranthene	S14-Ja09745	NCP	%	126			70-130	Pass	
Fluorene	S14-Ja09745	NCP	%	120			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja09745	NCP	%	108			70-130	Pass	
Naphthalene	S14-Ja09745	NCP	%	129			70-130	Pass	
Phenanthrene	S14-Ja09745	NCP	%	123			70-130	Pass	
Pyrene	S14-Ja09745	NCP	%	127			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S14-Ja09858	CP	%	103			70-130	Pass	
Cadmium	S14-Ja09858	CP	%	104			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Chromium	S14-Ja09858	CP	%	100			70-130	Pass	
Copper	S14-Ja09858	CP	%	96			70-130	Pass	
Lead	S14-Ja09858	CP	%	95			70-130	Pass	
Mercury	S14-Ja09858	CP	%	104			70-130	Pass	
Nickel	S14-Ja09858	CP	%	97			70-130	Pass	
Zinc	S14-Ja09858	CP	%	113			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S14-Ja08802	NCP	%	102			70-130	Pass	
Cadmium	S14-Ja08802	NCP	%	103			70-130	Pass	
Chromium	S14-Ja08802	NCP	%	94			70-130	Pass	
Copper	S14-Ja08802	NCP	%	92			70-130	Pass	
Mercury	S14-Ja08802	NCP	%	109			70-130	Pass	
Nickel	S14-Ja08802	NCP	%	90			70-130	Pass	
Zinc	S14-Ja08802	NCP	%	72			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Acenaphthylene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Anthracene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benz(a)anthracene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(a)pyrene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(b&j)fluoranthene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(g.h.i)perylene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(k)fluoranthene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chrysene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibenz(a.h)anthracene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluoranthene	S14-Ja09744	NCP	mg/L	0.0030	0.0030	14	30%	Pass	
Fluorene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Naphthalene	S14-Ja09744	NCP	mg/L	0.017	0.017	1.0	30%	Pass	
Phenanthrene	S14-Ja09744	NCP	mg/L	0.0030	0.0030	9.0	30%	Pass	
Pyrene	S14-Ja09744	NCP	mg/L	0.0030	0.0030	13	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S14-Ja09857	CP	mg/L	< 0.01	0.01	3.0	30%	Pass	
Cadmium	S14-Ja09857	CP	mg/L	0.009	0.009	7.0	30%	Pass	
Chromium	S14-Ja09857	CP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Copper	S14-Ja09857	CP	mg/L	0.07	0.08	5.0	30%	Pass	
Lead	S14-Ja09857	CP	mg/L	0.33	0.34	4.0	30%	Pass	
Mercury	S14-Ja09857	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Nickel	S14-Ja09857	CP	mg/L	0.06	0.06	8.0	30%	Pass	
Zinc	S14-Ja09857	CP	mg/L	6.7	7.1	6.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S14-Ja09868	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Cadmium	S14-Ja09868	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Chromium	S14-Ja09868	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Copper	S14-Ja09868	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Mercury	S14-Ja09868	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Nickel	S14-Ja09868	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Zinc	S14-Ja09868	NCP	mg/L	0.96	0.93	3.0	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
C01	Leachate Fluid Key: 1 - pH 5.0, 2 - pH 2.9, 3 - pH 9.2, 4 - Reagent (DI) water, 5 - Client sample, 6 - other
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs

Authorised By

Jean Heng	Client Services
James Norford	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)

Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

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From: Nathan Cussen [mailto:NCussen@jbsg.com.au]
Sent: Wednesday, 22 January 2014 9:35 AM
To: Jean Heng
Subject: Lab batch 405478 Additional Analysis - Green Square Road South 43182

Hi Jean,

Could I schedule the following additional TCLP analysis:

- FC099 4.5-4.7 PAH TCLP
- FC099 0.2-0.3 LEAD TCLP
- FC099 4.5-4.7 LEAD TCLP
- FC100 0.2-0.3 LEAD TCLP
- FC100 4.3-4.5 METALS TCLP
- FC101 3.0-3.2 METALS TCLP

GWSL # 406276

Cheers,
Nathan

Nathan Cussen | Senior Environmental Consultant| JBS&G
Sydney | Melbourne | Adelaide | Perth | Brisbane
Level 1, 50 Margaret Street, Sydney NSW 2000
T: 02 8245 0300 | M: 0431 401 022| www.jbsg.com.au
Contaminated Land | Groundwater Remediation | Auditing and Compliance | Assessments and Approvals | Occupational Hygiene and Monitoring

If you would like to send through large electronic files (>25MB), please use JBS&G's secure internet-based file delivery system located at http://dropbox.yousendit.com/JBSG. Place 'Nathan Cussen - Sydney in the subject.
This email message is intended only for the addressee(s) and contains information that may be confidential and/or copyright. If you are not the intended recipient please delete this email immediately. Use, disclosure or reproduction of this email by anyone other than the intended recipient(s) is strictly prohibited. No representation is made that this email or any attachments are free of viruses and the recipient is responsible for undertaking appropriate virus scanning. Any advice provided in or attached to this email is subject to limitations.

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ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

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3-5 Kingston Town Close
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Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Sample Receipt Advice

Company name: **JBS & G (NSW & WA) Pty Ltd**

Contact name: Nathan Cussen
Client job number: GREEN SQUARE ROAD SOUTH 43182
COC number: Not provided
Turn around time: 5 Day
Date/Time received: Jan 13, 2014 5:00 PM
Eurofins | mgt reference: **405478**

Sample information

☑ A detailed list of analytes logged into our LIMS, is included in the attached summary table.

☑ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt Sample Receipt : 7 degrees Celsius.

☑ All samples have been received as described on the above COC.

☑ COC has been completed correctly.

☑ Attempt to chill was evident.

☑ Appropriately preserved sample containers have been used.

☑ All samples were received in good condition.

☑ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.

☑ Organic samples had Teflon liners.

☒ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Contact notes

If you have any questions with respect to these samples please contact:

Jean Heng on Phone : (+61) (2) 9900 8400 or by e.mail: JeanHeng@eurofins.com.au

Results will be delivered electronically via e.mail to Nathan Cussen - ncussen@jbsg.com.au.

Eurofins | mgt Sample Receipt

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ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

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NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: GREEN SQUARE ROAD SOUTH 43182

Order No.:
Report #: 405478
Phone: 02 8245 0300
Fax:

Received: Jan 13, 2014 5:00 PM
Due: Jan 21, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	Total Recoverable Hydrocarbons	JBS&G Suite 2
Laboratory where analysis is conducted												
Melbourne Laboratory - NATA Site # 1254 & 14271												
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794												
External Laboratory												
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**								
FC099 0.2-0.3	Jan 08, 2014		Soil	S14-Ja03765	X	X		X				X
FC099 0.5-0.7	Jan 08, 2014		Soil	S14-Ja03766	X	X		X	X	X	X	
FC099 1.5-1.7	Jan 08, 2014		Soil	S14-Ja03767	X	X		X				X
FC099 2.5-2.7	Jan 08, 2014		Soil	S14-Ja03768			X					
FC099 4.5-4.7	Jan 08, 2014		Soil	S14-Ja03769	X	X		X	X	X	X	
FC100 0.2-0.3	Jan 08, 2014		Soil	S14-Ja03770	X	X		X				X
FC100 0.4-0.6	Jan 08, 2014		Soil	S14-Ja03771	X	X		X	X	X	X	
FC100 1.7-1.9	Jan 08, 2014		Soil	S14-Ja03772	X				X	X	X	
FC100 3.0-3.2	Jan 08, 2014		Soil	S14-Ja03773			X					
FC100 4.3-4.5	Jan 08, 2014		Soil	S14-Ja03774	X				X	X	X	

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Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: GREEN SQUARE ROAD SOUTH 43182

Order No.:
Report #: 405478
Phone: 02 8245 0300
Fax:

Received: Jan 13, 2014 5:00 PM
Due: Jan 21, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	Total Recoverable Hydrocarbons	JBS&G Suite 2
Laboratory where analysis is conducted												
Melbourne Laboratory - NATA Site # 1254 & 14271												
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794												
External Laboratory												
FC101 0.2-0.3	Jan 08, 2014		Soil	S14-Ja03775			X					
FC101 0.5-0.8	Jan 08, 2014		Soil	S14-Ja03776	X							X
FC101 1.0-1.2	Jan 08, 2014		Soil	S14-Ja03777			X					
FC101 1.8-2.0	Jan 08, 2014		Soil	S14-Ja03778			X					
FC101 3.0-3.2	Jan 08, 2014		Soil	S14-Ja03779	X							X
FC101 5.0-5.2	Jan 08, 2014		Soil	S14-Ja03780			X					

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Certificate of Analysis

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Nathan Cussen**

Report **405478-S**
Client Reference GREEN SQUARE ROAD SOUTH 43182
Received Date Jan 13, 2014

Client Sample ID **Sample Matrix** **Eurofins | mgt Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**FC099 0.2-0.3** **Soil** **S14-Ja03765** **Jan 08, 2014**	**FC099 0.5-0.7** **Soil** **S14-Ja03766** **Jan 08, 2014**	**FC099 1.5-1.7** **Soil** **S14-Ja03767** **Jan 08, 2014**	**FC099 4.5-4.7** **Soil** **S14-Ja03769** **Jan 08, 2014**
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	93	< 50	< 50	< 50
TRH C10-36 (Total)	50	mg/kg	93	< 50	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	-
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	-
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	-
Xylenes - Total	0.3	mg/kg	< 0.3	-	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	121	-	100	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	110	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	0.7	< 0.5	< 0.5	0.9
Benzo(a)pyrene	0.5	mg/kg	0.7	< 0.5	< 0.5	1.1
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	0.8	< 0.5	< 0.5	1.2
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.9
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.6
Chrysene	0.5	mg/kg	0.6	< 0.5	< 0.5	0.8
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	1.2	< 0.5	< 0.5	1.4
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.7
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC099 0.2-0.3 Soil S14-Ja03765 Jan 08, 2014	FC099 0.5-0.7 Soil S14-Ja03766 Jan 08, 2014	FC099 1.5-1.7 Soil S14-Ja03767 Jan 08, 2014	FC099 4.5-4.7 Soil S14-Ja03769 Jan 08, 2014
Polycyclic Aromatic Hydrocarbons						
Phenanthrene	0.5	mg/kg	0.6	< 0.5	< 0.5	0.7
Pyrene	0.5	mg/kg	1.2	< 0.5	< 0.5	1.3
Total PAH	0.5	mg/kg	5.8	< 0.5	< 0.5	9.6
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	0.9	< 0.5	< 0.5	1.4
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	1.2	0.6	0.6	1.7
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	1.5	1.2	1.2	1.9
2-Fluorobiphenyl (surr.)	1	%	85	87	88	88
p-Terphenyl-d14 (surr.)	1	%	104	103	104	106
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	< 0.1	-
4.4'-DDD	0.05	mg/kg	< 0.05	-	< 0.05	-
4.4'-DDE	0.05	mg/kg	< 0.05	-	< 0.05	-
4.4'-DDT	0.05	mg/kg	< 0.05	-	< 0.05	-
a-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
Aldrin	0.05	mg/kg	< 0.05	-	< 0.05	-
b-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
d-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
Dieldrin	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan I	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan II	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin ketone	0.05	mg/kg	< 0.05	-	< 0.05	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	< 0.05	-
Heptachlor	0.05	mg/kg	< 0.05	-	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	< 0.05	-
Methoxychlor	0.2	mg/kg	< 0.2	-	< 0.2	-
Toxaphene	1	mg/kg	< 1	-	< 1	-
Dibutylchlorendate (surr.)	1	%	80	-	72	-
Tetrachloro-m-xylene (surr.)	1	%	74	-	93	-
Polychlorinated Biphenyls (PCB)						
Aroclor-1016	0.5	mg/kg	< 0.5	-	< 0.5	-
Aroclor-1232	0.5	mg/kg	< 0.5	-	< 0.5	-
Aroclor-1242	0.5	mg/kg	< 0.5	-	< 0.5	-
Aroclor-1248	0.5	mg/kg	< 0.5	-	< 0.5	-
Aroclor-1254	0.5	mg/kg	< 0.5	-	< 0.5	-
Aroclor-1260	0.5	mg/kg	< 0.5	-	< 0.5	-
Total PCB	0.5	mg/kg	< 0.5	-	< 0.5	-
Dibutylchlorendate (surr.)	1	%	80	-	72	-
Conductivity (1:5 aqueous extract at 25°C)	5	uS/cm	180	64	57	73
pH (1:5 Aqueous extract)	0.1	units	8.0	7.8	7.5	8.5
% Moisture	0.1	%	10	17	39	19

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC099 0.2-0.3 Soil S14-Ja03765 Jan 08, 2014	FC099 0.5-0.7 Soil S14-Ja03766 Jan 08, 2014	FC099 1.5-1.7 Soil S14-Ja03767 Jan 08, 2014	FC099 4.5-4.7 Soil S14-Ja03769 Jan 08, 2014
Heavy Metals						
Arsenic	2	mg/kg	4.5	5.8	2.5	5.0
Cadmium	0.4	mg/kg	0.7	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	9.1	5.3	5.1	7.0
Copper	5	mg/kg	140	26	14	130
Lead	5	mg/kg	130	14	19	230
Mercury	0.05	mg/kg	0.14	0.66	< 0.05	1.2
Nickel	5	mg/kg	11	8.9	7.4	11
Zinc	5	mg/kg	380	120	63	1300

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC100 0.2-0.3 Soil S14-Ja03770 Jan 08, 2014	FC100 0.4-0.6 Soil S14-Ja03771 Jan 08, 2014	FC100 1.7-1.9 Soil S14-Ja03772 Jan 08, 2014	FC100 4.3-4.5 Soil S14-Ja03774 Jan 08, 2014
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	38
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	220
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	130
TRH C10-36 (Total)	50	mg/kg	< 50	< 50	< 50	390
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	-	-
Toluene	0.1	mg/kg	< 0.1	-	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	-
o-Xylene	0.1	mg/kg	< 0.1	-	-	-
Xylenes - Total	0.3	mg/kg	< 0.3	-	-	-
4-Bromofluorobenzene (surr.)	1	%	88	-	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	86
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	67
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	280
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	140
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC100 0.2-0.3 Soil S14-Ja03770 Jan 08, 2014	FC100 0.4-0.6 Soil S14-Ja03771 Jan 08, 2014	FC100 1.7-1.9 Soil S14-Ja03772 Jan 08, 2014	FC100 4.3-4.5 Soil S14-Ja03774 Jan 08, 2014
Polycyclic Aromatic Hydrocarbons						
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	1.2	1.2	1.2	1.2
2-Fluorobiphenyl (surr.)	1	%	90	87	90	87
p-Terphenyl-d14 (surr.)	1	%	106	104	107	108
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	-
4.4'-DDD	0.05	mg/kg	0.16	-	-	-
4.4'-DDE	0.05	mg/kg	0.14	-	-	-
4.4'-DDT	0.05	mg/kg	0.06	-	-	-
a-BHC	0.05	mg/kg	< 0.05	-	-	-
Aldrin	0.05	mg/kg	< 0.05	-	-	-
b-BHC	0.05	mg/kg	< 0.05	-	-	-
d-BHC	0.05	mg/kg	< 0.05	-	-	-
Dieldrin	0.05	mg/kg	< 0.05	-	-	-
Endosulfan I	0.05	mg/kg	< 0.05	-	-	-
Endosulfan II	0.05	mg/kg	< 0.05	-	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	-
Endrin	0.05	mg/kg	< 0.05	-	-	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	-
Endrin ketone	0.05	mg/kg	< 0.05	-	-	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	-	-
Heptachlor	0.05	mg/kg	< 0.05	-	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	-
Hexachlorobenzene	0.05	mg/kg	0.23	-	-	-
Methoxychlor	0.2	mg/kg	< 0.2	-	-	-
Toxaphene	1	mg/kg	< 1	-	-	-
Dibutylchlorendate (surr.)	1	%	118	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	88	-	-	-
Polychlorinated Biphenyls (PCB)						
Aroclor-1016	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1232	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1242	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1248	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1254	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1260	0.5	mg/kg	< 0.5	-	-	-
Total PCB	0.5	mg/kg	< 0.5	-	-	-
Dibutylchlorendate (surr.)	1	%	118	-	-	-
Conductivity (1:5 aqueous extract at 25°C)	5	uS/cm	110	120	-	-
pH (1:5 Aqueous extract)	0.1	units	9.4	8.4	-	-
% Moisture	0.1	%	11	15	19	22

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC100 0.2-0.3 Soil S14-Ja03770 Jan 08, 2014	FC100 0.4-0.6 Soil S14-Ja03771 Jan 08, 2014	FC100 1.7-1.9 Soil S14-Ja03772 Jan 08, 2014	FC100 4.3-4.5 Soil S14-Ja03774 Jan 08, 2014
Heavy Metals						
Arsenic	2	mg/kg	3.2	6.2	2.1	3.3
Cadmium	0.4	mg/kg	0.6	0.6	0.7	2.8
Chromium	5	mg/kg	18	12	< 5	12
Copper	5	mg/kg	100	90	18	26
Lead	5	mg/kg	110	69	14	950
Mercury	0.05	mg/kg	0.10	0.10	< 0.05	< 0.05
Nickel	5	mg/kg	26	16	< 5	12
Zinc	5	mg/kg	110	150	160	290

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC101 0.5-0.8 Soil S14-Ja03776 Jan 08, 2014	FC101 3.0-3.2 Soil S14-Ja03779 Jan 08, 2014
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				
TRH C6-C9	20	mg/kg	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50
TRH C10-36 (Total)	50	mg/kg	< 50	< 50
BTEX				
Benzene	0.1	mg/kg	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1
Xylenes - Total	0.3	mg/kg	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	129	121
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	0.7	< 0.5
Benzo(a)pyrene	0.5	mg/kg	0.7	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	0.8	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5
Chrysene	0.5	mg/kg	0.6	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	1.1	< 0.5

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC101 0.5-0.8 Soil S14-Ja03776 Jan 08, 2014	FC101 3.0-3.2 Soil S14-Ja03779 Jan 08, 2014
Polycyclic Aromatic Hydrocarbons				
Fluorene	0.5	mg/kg	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5
Pyrene	0.5	mg/kg	1.1	< 0.5
Total PAH	0.5	mg/kg	5.0	< 0.5
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	0.9	< 0.5
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	1.2	0.6
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	1.5	1.2
2-Fluorobiphenyl (surr.)	1	%	98	89
p-Terphenyl-d14 (surr.)	1	%	116	105
Organochlorine Pesticides				
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05
a-BHC	0.05	mg/kg	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05
b-BHC	0.05	mg/kg	< 0.05	< 0.05
d-BHC	0.05	mg/kg	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05
Methoxychlor	0.2	mg/kg	< 0.2	< 0.2
Toxaphene	1	mg/kg	< 1	< 1
Dibutylchlorendate (surr.)	1	%	107	117
Tetrachloro-m-xylene (surr.)	1	%	77	83
Polychlorinated Biphenyls (PCB)				
Aroclor-1016	0.5	mg/kg	< 0.5	< 0.5
Aroclor-1232	0.5	mg/kg	< 0.5	< 0.5
Aroclor-1242	0.5	mg/kg	< 0.5	< 0.5
Aroclor-1248	0.5	mg/kg	< 0.5	< 0.5
Aroclor-1254	0.5	mg/kg	< 0.5	< 0.5
Aroclor-1260	0.5	mg/kg	< 0.5	< 0.5
Total PCB	0.5	mg/kg	< 0.5	< 0.5
Dibutylchlorendate (surr.)	1	%	107	117
% Moisture	0.1	%	8.3	31

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC101 0.5-0.8 Soil S14-Ja03776 Jan 08, 2014	FC101 3.0-3.2 Soil S14-Ja03779 Jan 08, 2014
Heavy Metals				
Arsenic	2	mg/kg	2.6	7.8
Cadmium	0.4	mg/kg	0.5	0.7
Chromium	5	mg/kg	18	11
Copper	5	mg/kg	190	82
Lead	5	mg/kg	38	150
Mercury	0.05	mg/kg	0.06	0.15
Nickel	5	mg/kg	32	12
Zinc	5	mg/kg	83	270

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Jan 16, 2014	14 Day
- Method: E004 Petroleum Hydrocarbons (TPH)			
BTEX	Sydney	Jan 15, 2014	14 Day
- Method: E029/E016 BTEX			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jan 16, 2014	14 Day
- Method: LM-LTM-ORG2010			
Polycyclic Aromatic Hydrocarbons	Sydney	Jan 15, 2014	14 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Organochlorine Pesticides	Sydney	Jan 15, 2014	14 Day
- Method: E013 Organochlorine Pesticides (OC)			
Polychlorinated Biphenyls (PCB)	Sydney	Jan 15, 2014	28 Day
- Method: E013 Polychlorinated Biphenyls (PCB)			
Metals M8	Sydney	Jan 15, 2014	28 Day
- Method: E022 Acid Extractable metals in Soils & E026 Mercury			
Conductivity (1:5 aqueous extract at 25°C)	Sydney	Jan 16, 2014	7 Day
- Method: E032.2 Electrical Conductivity (EC)			
pH (1:5 Aqueous extract)	Sydney	Jan 16, 2014	7 Day
- Method: E018.2 pH			
% Moisture	Sydney	Jan 15, 2014	28 Day
- Method: E005 Moisture Content			

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Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: GREEN SQUARE ROAD SOUTH 43182

Order No.:
Report #: 405478
Phone: 02 8245 0300
Fax:

Received: Jan 13, 2014 5:00 PM
Due: Jan 21, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	Total Recoverable Hydrocarbons	JBS&G Suite 2
Laboratory where analysis is conducted												
Melbourne Laboratory - NATA Site # 1254 & 14271												
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794												
External Laboratory												
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**								
FC099 0.2-0.3	Jan 08, 2014		Soil	S14-Ja03765	X	X		X				X
FC099 0.5-0.7	Jan 08, 2014		Soil	S14-Ja03766	X	X		X	X	X	X	
FC099 1.5-1.7	Jan 08, 2014		Soil	S14-Ja03767	X	X		X				X
FC099 2.5-2.7	Jan 08, 2014		Soil	S14-Ja03768			X					
FC099 4.5-4.7	Jan 08, 2014		Soil	S14-Ja03769	X	X		X	X	X	X	
FC100 0.2-0.3	Jan 08, 2014		Soil	S14-Ja03770	X	X		X				X
FC100 0.4-0.6	Jan 08, 2014		Soil	S14-Ja03771	X	X		X	X	X	X	
FC100 1.7-1.9	Jan 08, 2014		Soil	S14-Ja03772	X				X	X	X	
FC100 3.0-3.2	Jan 08, 2014		Soil	S14-Ja03773			X					
FC100 4.3-4.5	Jan 08, 2014		Soil	S14-Ja03774	X				X	X	X	

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Client Job No.: GREEN SQUARE ROAD SOUTH 43182

Order No.:
Report #: 405478
Phone: 02 8245 0300
Fax:

Received: Jan 13, 2014 5:00 PM
Due: Jan 21, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	Total Recoverable Hydrocarbons	JBS&G Suite 2
Laboratory where analysis is conducted												
Melbourne Laboratory - NATA Site # 1254 & 14271												
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794												
External Laboratory												
FC101 0.2-0.3	Jan 08, 2014		Soil	S14-Ja03775			X					
FC101 0.5-0.8	Jan 08, 2014		Soil	S14-Ja03776	X							X
FC101 1.0-1.2	Jan 08, 2014		Soil	S14-Ja03777			X					
FC101 1.8-2.0	Jan 08, 2014		Soil	S14-Ja03778			X					
FC101 3.0-3.2	Jan 08, 2014		Soil	S14-Ja03779	X							X
FC101 5.0-5.2	Jan 08, 2014		Soil	S14-Ja03780			X					

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH C6-C10 less BTEX (F1)	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-BHC	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-BHC	mg/kg	< 0.05			0.05	Pass	
d-BHC	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-BHC (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.2			0.2	Pass	
Toxaphene	mg/kg	< 1			1	Pass	
Method Blank							
Polychlorinated Biphenyls (PCB)							
Aroclor-1016	mg/kg	< 0.5			0.5	Pass	
Aroclor-1232	mg/kg	< 0.5			0.5	Pass	
Aroclor-1242	mg/kg	< 0.5			0.5	Pass	
Aroclor-1248	mg/kg	< 0.5			0.5	Pass	
Aroclor-1254	mg/kg	< 0.5			0.5	Pass	
Aroclor-1260	mg/kg	< 0.5			0.5	Pass	
Total PCB	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.05			0.05	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	87			70-130	Pass	
TRH C10-C14	%	75			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	99			70-130	Pass	
Toluene	%	94			70-130	Pass	
Ethylbenzene	%	94			70-130	Pass	
m&p-Xylenes	%	94			70-130	Pass	
o-Xylene	%	105			70-130	Pass	
Xylenes - Total	%	98			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	108			70-130	Pass	
TRH C6-C10	%	98			70-130	Pass	
TRH >C10-C16	%	81			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	108			70-130	Pass	
Acenaphthylene	%	106			70-130	Pass	
Anthracene	%	82			70-130	Pass	
Benz(a)anthracene	%	106			70-130	Pass	
Benzo(a)pyrene	%	90			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Benzo(b&j)fluoranthene	%	107			70-130	Pass	
Benzo(g.h.i)perylene	%	110			70-130	Pass	
Benzo(k)fluoranthene	%	115			70-130	Pass	
Chrysene	%	111			70-130	Pass	
Dibenz(a.h)anthracene	%	112			70-130	Pass	
Fluoranthene	%	109			70-130	Pass	
Fluorene	%	110			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	111			70-130	Pass	
Naphthalene	%	112			70-130	Pass	
Phenanthrene	%	106			70-130	Pass	
Pyrene	%	105			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	115			70-130	Pass	
4.4'-DDD	%	115			70-130	Pass	
4.4'-DDE	%	113			70-130	Pass	
4.4'-DDT	%	114			70-130	Pass	
a-BHC	%	114			70-130	Pass	
Aldrin	%	116			70-130	Pass	
b-BHC	%	122			70-130	Pass	
d-BHC	%	116			70-130	Pass	
Dieldrin	%	115			70-130	Pass	
Endosulfan I	%	116			70-130	Pass	
Endosulfan II	%	120			70-130	Pass	
Endosulfan sulphate	%	121			70-130	Pass	
Endrin	%	114			70-130	Pass	
Endrin aldehyde	%	118			70-130	Pass	
Endrin ketone	%	119			70-130	Pass	
g-BHC (Lindane)	%	115			70-130	Pass	
Heptachlor	%	112			70-130	Pass	
Heptachlor epoxide	%	115			70-130	Pass	
Hexachlorobenzene	%	96			70-130	Pass	
Methoxychlor	%	117			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls (PCB)							
Aroclor-1260	%	88			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	97			70-130	Pass	
Cadmium	%	106			70-130	Pass	
Chromium	%	107			70-130	Pass	
Copper	%	108			70-130	Pass	
Lead	%	104			70-130	Pass	
Mercury	%	113			70-130	Pass	
Nickel	%	111			70-130	Pass	
Zinc	%	101			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S14-Ja03765	CP	%	90			70-130	Pass	
TRH C10-C14	S14-Ja03765	CP	%	73			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S14-Ja03765	CP	%	94			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Toluene	S14-Ja03765	CP	%	88			70-130	Pass	
Ethylbenzene	S14-Ja03765	CP	%	89			70-130	Pass	
m&p-Xylenes	S14-Ja03765	CP	%	90			70-130	Pass	
o-Xylene	S14-Ja03765	CP	%	99			70-130	Pass	
Xylenes - Total	S14-Ja03765	CP	%	93			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S14-Ja03765	CP	%	101			70-130	Pass	
TRH C6-C10	S14-Ja03765	CP	%	89			70-130	Pass	
TRH >C10-C16	S14-Ja03765	CP	%	90			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S14-Ja03765	CP	%	123			70-130	Pass	
Acenaphthylene	S14-Ja03765	CP	%	121			70-130	Pass	
Anthracene	S14-Ja03765	CP	%	125			70-130	Pass	
Benz(a)anthracene	S14-Ja03765	CP	%	114			70-130	Pass	
Benzo(a)pyrene	S14-Ja03765	CP	%	113			70-130	Pass	
Benzo(b&j)fluoranthene	S14-Ja03765	CP	%	102			70-130	Pass	
Benzo(g.h.i)perylene	S14-Ja03765	CP	%	102			70-130	Pass	
Benzo(k)fluoranthene	S14-Ja03765	CP	%	122			70-130	Pass	
Chrysene	S14-Ja03765	CP	%	113			70-130	Pass	
Dibenz(a.h)anthracene	S14-Ja03765	CP	%	119			70-130	Pass	
Fluoranthene	S14-Ja03765	CP	%	100			70-130	Pass	
Fluorene	S14-Ja03765	CP	%	121			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja03765	CP	%	123			70-130	Pass	
Naphthalene	S14-Ja03765	CP	%	119			70-130	Pass	
Phenanthrene	S14-Ja03765	CP	%	102			70-130	Pass	
Pyrene	S14-Ja03765	CP	%	93			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S14-Ja03765	CP	%	104			70-130	Pass	
Cadmium	S14-Ja03765	CP	%	100			70-130	Pass	
Chromium	S14-Ja03765	CP	%	101			70-130	Pass	
Copper	S14-Ja03874	NCP	%	100			70-130	Pass	
Lead	S14-Ja03765	CP	%	119			70-130	Pass	
Mercury	S14-Ja03765	CP	%	116			70-130	Pass	
Nickel	S14-Ja03765	CP	%	102			70-130	Pass	
Zinc	S14-Ja03551	NCP	%	104			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S14-Ja03494	NCP	%	100			70-130	Pass	
4.4'-DDD	S14-Ja03494	NCP	%	122			70-130	Pass	
4.4'-DDE	S14-Ja03494	NCP	%	105			70-130	Pass	
4.4'-DDT	S14-Ja03494	NCP	%	70			70-130	Pass	
a-BHC	S14-Ja03494	NCP	%	110			70-130	Pass	
Aldrin	S14-Ja03494	NCP	%	104			70-130	Pass	
b-BHC	S14-Ja03494	NCP	%	115			70-130	Pass	
d-BHC	S14-Ja03494	NCP	%	118			70-130	Pass	
Dieldrin	S14-Ja03494	NCP	%	96			70-130	Pass	
Endosulfan I	S14-Ja03494	NCP	%	107			70-130	Pass	
Endosulfan II	S14-Ja03494	NCP	%	95			70-130	Pass	
Endosulfan sulphate	S14-Ja03494	NCP	%	91			70-130	Pass	
Endrin	S14-Ja03494	NCP	%	99			70-130	Pass	
Endrin aldehyde	S14-Ja03494	NCP	%	83			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endrin ketone	S14-Ja03494	NCP	%	85			70-130	Pass	
g-BHC (Lindane)	S14-Ja03494	NCP	%	111			70-130	Pass	
Heptachlor	S14-Ja03494	NCP	%	96			70-130	Pass	
Heptachlor epoxide	S14-Ja03494	NCP	%	101			70-130	Pass	
Hexachlorobenzene	S14-Ja03494	NCP	%	107			70-130	Pass	
Methoxychlor	S14-Ja03494	NCP	%	84			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S14-Ja03765	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S14-Ja05206	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S14-Ja05206	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S14-Ja05206	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S14-Ja03765	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S14-Ja03765	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S14-Ja03765	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S14-Ja03765	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S14-Ja03765	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total	S14-Ja03765	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S14-Ja03765	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S14-Ja03765	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S14-Ja03765	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S14-Ja05206	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S14-Ja05206	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S14-Ja05206	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S14-Ja03765	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S14-Ja03765	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S14-Ja03765	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S14-Ja03765	CP	mg/kg	0.7	< 0.5	74	30%	Fail	Q15
Benzo(a)pyrene	S14-Ja03765	CP	mg/kg	0.7	< 0.5	79	30%	Fail	Q15
Benzo(b&j)fluoranthene	S14-Ja03765	CP	mg/kg	0.8	< 0.5	74	30%	Fail	Q15
Benzo(g.h.i)perylene	S14-Ja03765	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S14-Ja03765	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S14-Ja03765	CP	mg/kg	0.6	< 0.5	72	30%	Fail	Q15
Dibenz(a.h)anthracene	S14-Ja03765	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S14-Ja03765	CP	mg/kg	1.2	0.5	73	30%	Fail	Q15
Fluorene	S14-Ja03765	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja03765	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S14-Ja03765	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S14-Ja03765	CP	mg/kg	0.6	< 0.5	55	30%	Fail	Q15
Pyrene	S14-Ja03765	CP	mg/kg	1.2	0.5	76	30%	Fail	Q15
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S14-Ja03765	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S14-Ja03765	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S14-Ja03765	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S14-Ja03765	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	S14-Ja03765	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	

Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Aldrin	S14-Ja03765	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	S14-Ja03765	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-BHC	S14-Ja03765	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S14-Ja03765	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S14-Ja03765	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S14-Ja03765	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S14-Ja03765	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S14-Ja03765	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S14-Ja03765	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S14-Ja03765	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	S14-Ja03765	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S14-Ja03765	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S14-Ja03765	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S14-Ja03765	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S14-Ja03765	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Toxaphene	S14-Ja03765	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls (PCB)				Result 1	Result 2	RPD			
Aroclor-1016	S14-Ja03765	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1232	S14-Ja03765	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1242	S14-Ja03765	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1248	S14-Ja03765	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1254	S14-Ja03765	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1260	S14-Ja03765	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Conductivity (1:5 aqueous extract at 25°C)	S14-Ja03647	NCP	uS/cm	440	440	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S14-Ja03765	CP	mg/kg	4.5	8.6	63	30%	Fail	Q15
Cadmium	S14-Ja03765	CP	mg/kg	0.7	1.0	34	30%	Fail	Q15
Chromium	S14-Ja03765	CP	mg/kg	9.1	9.9	8.0	30%	Pass	
Copper	S14-Ja03765	CP	mg/kg	140	98	39	30%	Fail	Q15
Lead	S14-Ja03765	CP	mg/kg	130	150	15	30%	Pass	
Mercury	S14-Ja03765	CP	mg/kg	0.14	0.14	1.0	30%	Pass	
Nickel	S14-Ja03765	CP	mg/kg	11	11	3.0	30%	Pass	
Zinc	S14-Ja03765	CP	mg/kg	380	520	32	30%	Fail	Q15

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q15	The RPD reported passes Eurofins | mgt's Acceptance Criteria as stipulated in SOP 05. Refer to Glossary Page of this report for further details

Authorised By

Jean Heng	Client Services
Bob Symons	Senior Analyst-Inorganic (NSW)
James Norford	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)
Ryan Hamilton	Senior Analyst-Volatile (NSW)

Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

Eurofins | mgt shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins | mgt be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

eurofins | mgt
Unit F3-F6 Building F, Parkview Building
16 Mars Road, Lane Cove West
NSW 2066

Page 1 of 1

CHAIN OF CUSTODY

405478

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square Road South
SEND REPORT TO: N Cussen SEND INVOICE TO: G NZ
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: CMS
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: ncussen@jbsg.com.au
QC LEVEL: NEPM (2013)

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	JBS&G SPECIFIC SUITES: JB1	JB1T	JB1A	JB2	JB2A	B10	JB2/JBL	JB3/JBL	JB4	JBL	TRH	PAH	BTEX	pH	8 Metals	NOTES:
FC099 0.2-0.3	Soil	8/1/14		Ice + Ice					X									X	X		
FC099 0.5-0.7																X	X	X	X	X	
FC099 1.5-1.7									X									X	X		
FC099 2.5-2.7																					
FC099 4.5-4.7																X	X	X	X	X	
FC100 0.2-0.3									X									X	X		
FC100 0.4-0.6																X	X	X	X	X	
FC100 1.7-1.9																X	X			X	
FC100 3.0-3.2																X	X			X	
FC100 4.3-4.5																					
FC101 0.2-0.3																X	X			X	
FC101 0.5-0.8																					
FC101 1.0-1.2									X												
FC101 1.9-2.0																					
FC101 3.0-3.2																					
FC101 5.0-5.2									X												

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Nathan DATE: 8/1/14	CONSIGNMENT NOTE NO.	NAME: Ellen WG DATE: 130114	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	OF: EF/mgt 1700	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - eurofins mgt

JB1 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1T - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos
JB2 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos

B10 - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2/JBL - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)
JB3/JBL - TRH/BTEX/PAH/OCP/OPP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)/Asbestos
JB4 - TRH/BTEX/VOC
JBL - TCLP(PAH & 6 Metals)

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

SAMPLE RECEIPT ADVICE

Client:

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney NSW 2000

ph: 02 8245 0300
Fax: 02 8245 0399

Attention: Joanne Rosner, Nathan Cussen

Sample log in details:

Your reference:	**43182, Green Square Road South**
Envirolab Reference:	**103456**
Date received:	14/01/14
Date results expected to be reported:	**21/01/14**

Samples received in appropriate condition for analysis:	YES
No. of samples provided	16 soils
Turnaround time requested:	Standard
Temperature on receipt (°C)	NA
Cooling Method:	None
Sampling Date Provided:	YES

Comments:

Samples will be held for 1 month for water samples and 2 months for soil samples from date of receipt of samples.

Contact details:

Please direct any queries to Aileen Hie or Jacinta Hurst
ph: 02 9910 6200 fax: 02 9910 6201
email: ahie@envirolabservices.com.au or jhurst@envirolabservices.com.au

Envirolab Services Pty Ltd
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enquiries@envirolabservices.com.au
www.envirolabservices.com.au

CERTIFICATE OF ANALYSIS 103456

Client:
JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention: Joanne Rosner, Nathan Cussen

Sample log in details:

Your Reference:	**43182, Green Square Road South**
No. of samples:	16 soils
Date samples received / completed instructions received	14/01/14 / 14/01/14

Analysis Details:
Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by: / Issue Date:	21/01/14 / 17/01/14
Date of Preliminary Report:	Not Issued

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Accredited for compliance with ISO/IEC 17025. **Tests not covered by NATA are denoted with *.**

Results Approved By:

Jacinta Hurst
Laboratory Manager

Asbestos ID - soils WA						
Our Reference:	UNITS	103456-1	103456-2	103456-3	103456-5	103456-6
Your Reference	----------	FC099	FC099	FC099	FC099	FC100
Depth	----------	0.2-0.3	0.5-0.7	1.5-1.7	4.5-4.7	0.2-0.3
Date Sampled		08/01/2014	08/01/2014	08/01/2014	08/01/2014	08/01/2014
Type of sample		soil	soil	soil	soil	soil
Date analysed	-	17/01/2014	17/01/2014	17/01/2014	17/01/2014	17/01/2014
Sample mass tested	g	681.57g	495.12g	431.77g	707.62g	836.45g
Sample Description	-	Grey coarse-grained soil & rocks	Dark grey coarse-grained soil & rocks	Pink fine-grained soil & rocks	Grey coarse-grained soil & rocks	Grey coarse-grained soil & rocks
Asbestos ID in soil	-	Chrysotile asbestos detected Crocidolite asbestos detected	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected

Asbestos ID - soils WA						
Our Reference:	UNITS	103456-7	103456-8	103456-10	103456-12	103456-15
Your Reference	----------	FC100	FC100	FC100	FC101	FC101
Depth	----------	0.4-0.6	1.7-1.9	4.3-4.5	0.5-0.8	3.0-3.2
Date Sampled		08/01/2014	08/01/2014	08/01/2014	08/01/2014	08/01/2014
Type of sample		soil	soil	soil	soil	soil
Date analysed	-	17/01/2014	17/01/2014	17/01/2014	17/01/2014	17/01/2014
Sample mass tested	g	678.95g	740.87g	871.69g	729.46g	730.86g
Sample Description	-	Grey coarse-grained soil & rocks	Dark grey fine-grained soil & rocks	Dark brown fine-grained soil & rocks	Grey coarse-grained soil & rocks	Grey coarse-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected

Asbestos ID - soils WA		
Our Reference:	UNITS	103456-16
Your Reference	----------	FC101
Depth	----------	5.0-5.2
Date Sampled		08/01/2014
Type of sample		soil
Date analysed	-	17/01/2014
Sample mass tested	g	746.11g
Sample Description	-	Grey fine-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected

Method ID	Methodology Summary
ASB-003	Asbestos ID - Minimum 500mL soil sample was analysed as recommended by "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.1g/kg as per AS4964-2004.

Report Comments:

This report is consistent with the analytical procedures and reporting recommendations in the Western Australian Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009.

Sample: 103456-2 & 3;
Note: All samples analysed as received. However, samples are below the minimum 500mL sample volume as per Western Australia's DOH guidelines.

Sample 103456-1; Chrysotile & Crocidolite asbestos identified embedded in several fragments of fibre cement and loose fibre bundle of Chrysolite asbestos identified (total weight 4.3743g). It is estimated the total asbestos content is contains up to 25% asbestos fibres by weight. This calculates to 10.0936g of asbestos fibres, which in 681.57g of soil is 1.60g/kg (i.e. > reporting limit for the method of 0.1g/kg).

Sample 103456-8; Chrysotile asbestos identified embedded in several fragments of fibre cement (total weight 0.1868g). It is estimated that the fibre cement contains up to 15% asbestos fibres by weight. This calculates to 0.0280g of asbestos fibres within the sample (total weight 740.87g), which is calculated as less than the reporting limit for the method (i.e. < 0.1g/kg).

Sample 103456-16; Loose fibre bundles of Chrysolite asbestos identified within the sample (total weight 0.0011g). This is 100% asbestos fibres by weight, within the sample (total weight 746.11g), which is calculated as less than the reporting limit for the method (i.e. < 0.1g/kg).

Asbestos ID was analysed by Approved Identifier: Alex Tam
Asbestos ID was authorised by Approved Signatory: Paul Ching

INS: Insufficient sample for this test
NA: Test not required
<: Less than
PQL: Practical Quantitation Limit
RPD: Relative Percent Difference
>: Greater than
NT: Not tested
NA: Test not required
LCS: Laboratory Control Sample

Quality Control Definitions

Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

Duplicate: This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

Matrix Spike : A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

LCS (Laboratory Control Sample) : This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Surrogate Spike: Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.
Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.
Spikes for Physical and Aggregate Tests are not applicable.
For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.
Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for SVOC and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been

12 Ashley Street
Chatswood
NSW 2067

Page 1 of 1

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square Road South
SEND REPORT TO: N Cussen SEND INVOICE TO:
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: Chris B
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: NCussen@jbsg.com.au
QC LEVEL: NEPM (2013)

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	COMBO SUITES: SOIL - 4	SOIL – 4L	SOIL – 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER – 1m	WATER – 2L	WATER – 3L	Asbestos (Dry)	NOTES:
1	FC099 0.2-0.3	Soil	8/1/14		Bag + Ice												X	
2	FC099 0.5-0.7																X	
3	FC099 1.5-1.7																X	
4	FC099 2.5-2.7																	
5	FC099 4.5-4.7																	
6	FC100 0.2-0.3																X	
7	FC100 0.4-0.6																X	
8	FC100 1.7-1.9																X	
9	FC100 3.0-3.2																X	
10	FC100 4.3-4.5																	
11	FC101 0.2-0.3																X	
12	FC101 0.5-0.8																	
13	FC101 1.0-1.2																X	
14	FC101 1.9-2.0																	
15	FC101 3.0-3.2																	
16	FC101 5.0-5.2																X	
																	X	

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200
Job No: 103456
Date Received: 14.1.14
Time Received: 10:30
Received by: D.F
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: Daniel Ford	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 14.1.14	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	OF: ENS	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	NAME: DATE: OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Envirolab

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

PICKFORD & RHYDER CONSULTING PTY LTD
ABN 17 105 546 076
Occupational Hygiene Measurements and Solutions.

PO Box 1422 Lane Cove 1595
Rear - 244 Burns Bay Road
Lane Cove NSW Australia
Phone: (02) 9418 9151
Fax: (02) 9418 9150

16 January 2014

N. Cussen
JBS&G (NSW & WA) Pty Ltd
Level 1
50 Margaret Street
SYDNEY NSW 2000

Email: ncussen@jbsg.com.au,

CERTIFICATE OF ANALYSIS – ASBESTOS IDENTIFICATION

YOUR REFERENCE/JOB No: 43182
TYPE OF SAMPLES: Bulk sample - as received from Envirolab Services
SITE LOCATION: Green Square, Road North
DATE SAMPLED: 9 January 2014 **DATE RECEIVED:** 15 January 2014
OUR REFERENCE: 77790-ID

TEST METHOD: Soil samples examined by Stereomicroscopy and Polarized Light Microscopy (with Dispersion Staining) in accordance with AS 4964-2004: - 'Method for the qualitative identification of asbestos in bulk samples' as outlined in Laboratory Method ID/1. The Reporting Limit for the results in this Certificate is numerically equal to the lowest detection limit of 0.1 g/kg. Trace asbestos analysis has been conducted on each sample, which is generally designed to detect 'respirable' asbestos fibres (i.e. less than 3 micrometres in width) distributed throughout the sample.

Sample No	*Lab No*	*Sample Information*	*Analysis Result*	*Description*
QC05-A	77790	Soil sample as received	No asbestos detected	The sample was a brown, clumpy soil with stones and plant matter, of total approximate weight 891 g, in which organic fibres were detected in the +2 mm and -2mm fraction. No asbestos fibres were detected in the +2 mm fraction. No asbestos fibres were detected in a representative sub-sample of the –2 mm fraction. No asbestos fibres were found at the Reporting Limit of 0.1g/kg.

All sampling and site work has been undertaken by the client - the analytical procedures and results reported on this Certificate have been conducted by Pickford & Rhyder Consulting.

Sampling is not covered by the scope of accreditation.

Analysed and reported by:

Gary Conaty,
Approved Identifier and Signatory.

NATA
ACCREDITED FOR TECHNICAL COMPETENCE

Accredited for compliance with ISO/IEC 17025. This document shall not be reproduced except in full.

Accreditation number 2515

12 Ashley Street
Chatswood
NSW 2067

77790

For P&R

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 47382
PROJECT NAME: Green Square Road North
SEND REPORT TO: N Cussen SEND INVOICE TO: Grace NJ
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

P&R

LABORATORY BATCH NO.:
SAMPLERS: Chris
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: ncussen@jbsg.com.au

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	COMBO SUITES: SOIL - 4	SOIL – 4L	SOIL – 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER – 1m	WATER – 2L	WATER – 3L	Asbestos (DSH)	NOTES:
QC05-A	soil	9/1/14		Bag												+	

RELINQUISHED BY:
NAME: Nath DATE: 10/1/14
OF: JBS&G
NAME: DATE: 15/1/14
OF:

METHOD OF SHIPMENT:
CONSIGNMENT NOTE NO.
TRANSPORT CO.
CONSIGNMENT NOTE NO.
TRANSPORT CO

RECEIVED BY:
NAME:
DATE:
OF:
NAME: DATE:
OF:

FOR RECEIVING LAB USE ONLY:
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Envirolab

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

Recd by JM
15/1/14
9:30

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NATA # 1261
Site # 1254 & 14271

Sydney
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Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name:	JBS & G (NSW & WA) Pty Ltd	**Order No.:**		**Received:**	Jan 20, 2014 6:10 PM
Address:	Level 1, 50 Margaret St Sydney NSW 2000	**Report #:**	406078	**Due:**	Jan 29, 2014
		Phone:	02 8245 0300	**Priority:**	5 Day
		Fax:		**Contact Name:**	Nathan Cussen
Client Job No.:	ADDITIONAL: GREEN SQUARE ROAD NORTH 43182				

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Polycyclic Aromatic Hydrocarbons	Toxicity Characteristic Leaching Procedure (TCLP)	Metals M8
Laboratory where analysis is conducted								
Melbourne Laboratory - NATA Site # 1254 & 14271								
Sydney Laboratory - NATA Site # 18217					X	X	X	X
Brisbane Laboratory - NATA Site # 20794								
External Laboratory								
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**				
FC063 1.6-1.8	Jan 09, 2014		TCLP	S14-Ja08626	X	X	X	
FC062 0.1-0.2	Jan 09, 2014		TCLP	S14-Ja08627	X		X	X

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NATA # 1261
Site # 1254 & 14271

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Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Sample Receipt Advice

Company name: **JBS & G (NSW & WA) Pty Ltd**

Contact name: Nathan Cussen
Client job number: ADDITIONAL: GREEN SQUARE ROAD NORTH 43182
COC number: Not provided
Turn around time: 5 Day
Date/Time received: Jan 20, 2014 6:10 PM
Eurofins | mgt reference: **406078**

Sample information

☑ A detailed list of analytes logged into our LIMS, is included in the attached summary table.

☑ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt Sample Receipt : 7 degrees Celsius.

☑ All samples have been received as described on the above COC.

☑ COC has been completed correctly.

☑ Attempt to chill was evident.

☑ Appropriately preserved sample containers have been used.

☑ All samples were received in good condition.

☑ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.

☑ Organic samples had Teflon liners.

☒ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Notes

Additional from 405422

Contact notes

If you have any questions with respect to these samples please contact:

Jean Heng on Phone : (+61) (2) 9900 8400 or by e.mail: JeanHeng@eurofins.com.au

Results will be delivered electronically via e.mail to Nathan Cussen - ncussen@jbsg.com.au.

Eurofins | mgt Sample Receipt

eurofins | mgt

Certificate of Analysis

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Nathan Cussen**

Report **406078-L**
Client Reference ADDITIONAL: GREEN SQUARE ROAD NORTH 43182
Received Date Jan 20, 2014

Client Sample ID **Sample Matrix** **Eurofins | mgt Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**FC063 1.6-1.8** **TCLP** **S14-Ja08626** **Jan 09, 2014**	**FC062 0.1-0.2** **TCLP** **S14-Ja08627** **Jan 09, 2014**
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	0.001	mg/L	0.002	-
Acenaphthylene	0.001	mg/L	0.001	-
Anthracene	0.001	mg/L	< 0.001	-
Benz(a)anthracene	0.001	mg/L	< 0.001	-
Benzo(a)pyrene	0.001	mg/L	< 0.001	-
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	< 0.001	-
Benzo(g.h.i)perylene	0.001	mg/L	< 0.001	-
Benzo(k)fluoranthene	0.001	mg/L	< 0.001	-
Chrysene	0.001	mg/L	< 0.001	-
Dibenz(a.h)anthracene	0.001	mg/L	< 0.001	-
Fluoranthene	0.001	mg/L	< 0.001	-
Fluorene	0.001	mg/L	0.001	-
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001	-
Naphthalene	0.001	mg/L	0.004	-
Phenanthrene	0.001	mg/L	0.001	-
Pyrene	0.001	mg/L	< 0.001	-
Total PAH	0.002	mg/L	0.009	-
2-Fluorobiphenyl (surr.)	1	%	123	-
p-Terphenyl-d14 (surr.)	1	%	129	-
Heavy Metals				
Arsenic	0.01	mg/L	-	< 0.01
Cadmium	0.005	mg/L	-	0.007
Chromium	0.05	mg/L	-	< 0.05
Copper	0.05	mg/L	-	0.06
Lead	0.01	mg/L	-	0.35
Mercury	0.001	mg/L	-	< 0.001
Nickel	0.05	mg/L	-	< 0.05
Zinc	0.05	mg/L	-	0.97
% Moisture	0.1	%	17	6.0
Toxicity Characteristic Leaching Procedure (TCLP)				
Leachate Fluid[C01]		comment	1.0	1.0
pH (TCLP - HCl addition)	0.1	units	1.7	1.6
pH (TCLP - initial)	0.1	units	8.5	8.7
pH (TCLP - off)	0.1	units	6.4	5.6

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Polycyclic Aromatic Hydrocarbons	Sydney	Jan 23, 2014	7 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Metals M8	Sydney	Jan 22, 2014	28 Day
- Method: E022 Acid Extractable metals in Soils & E026 Mercury			
% Moisture	Sydney	Jan 22, 2014	0 Day
- Method: E005 Moisture Content			
Toxicity Characteristic Leaching Procedure (TCLP)	Sydney	Jan 22, 2014	0 Day
- Method: E019 TCLP Preparation			

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Client Job No.:	ADDITIONAL: GREEN SQUARE ROAD NORTH 43182				

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Polycyclic Aromatic Hydrocarbons	Toxicity Characteristic Leaching Procedure (TCLP)	Metals M8
Laboratory where analysis is conducted								
Melbourne Laboratory - NATA Site # 1254 & 14271								
Sydney Laboratory - NATA Site # 18217					X	X	X	X
Brisbane Laboratory - NATA Site # 20794								
External Laboratory								
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**				
FC063 1.6-1.8	Jan 09, 2014		TCLP	S14-Ja08626	X	X	X	
FC062 0.1-0.2	Jan 09, 2014		TCLP	S14-Ja08627	X		X	X

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/L	< 0.001			0.001	Pass	
Acenaphthylene	mg/L	< 0.001			0.001	Pass	
Anthracene	mg/L	< 0.001			0.001	Pass	
Benz(a)anthracene	mg/L	< 0.001			0.001	Pass	
Benzo(a)pyrene	mg/L	< 0.001			0.001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.001			0.001	Pass	
Benzo(g.h.i)perylene	mg/L	< 0.001			0.001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.001			0.001	Pass	
Chrysene	mg/L	< 0.001			0.001	Pass	
Dibenz(a.h)anthracene	mg/L	< 0.001			0.001	Pass	
Fluoranthene	mg/L	< 0.001			0.001	Pass	
Fluorene	mg/L	< 0.001			0.001	Pass	
Indeno(1.2.3-cd)pyrene	mg/L	< 0.001			0.001	Pass	
Naphthalene	mg/L	< 0.001			0.001	Pass	
Phenanthrene	mg/L	< 0.001			0.001	Pass	
Pyrene	mg/L	< 0.001			0.001	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S14-Ja09745	NCP	%	118			70-130	Pass	
Acenaphthylene	S14-Ja09745	NCP	%	110			70-130	Pass	
Anthracene	S14-Ja09745	NCP	%	115			70-130	Pass	
Benz(a)anthracene	S14-Ja09745	NCP	%	109			70-130	Pass	
Benzo(a)pyrene	S14-Ja09745	NCP	%	123			70-130	Pass	
Benzo(b&j)fluoranthene	S14-Ja09745	NCP	%	111			70-130	Pass	
Benzo(g.h.i)perylene	S14-Ja09745	NCP	%	102			70-130	Pass	
Benzo(k)fluoranthene	S14-Ja09745	NCP	%	123			70-130	Pass	
Chrysene	S14-Ja09745	NCP	%	120			70-130	Pass	
Dibenz(a.h)anthracene	S14-Ja09745	NCP	%	101			70-130	Pass	
Fluoranthene	S14-Ja09745	NCP	%	126			70-130	Pass	
Fluorene	S14-Ja09745	NCP	%	120			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja09745	NCP	%	108			70-130	Pass	
Naphthalene	S14-Ja09745	NCP	%	129			70-130	Pass	
Phenanthrene	S14-Ja09745	NCP	%	123			70-130	Pass	
Pyrene	S14-Ja09745	NCP	%	127			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1	Result 2	RPD	Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Acenaphthylene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Anthracene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benz(a)anthracene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(a)pyrene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(b&j)fluoranthene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(g.h.i)perylene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(k)fluoranthene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chrysene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibenz(a.h)anthracene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluoranthene	S14-Ja09744	NCP	mg/L	0.0033	0.0028	14	30%	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Fluorene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Naphthalene	S14-Ja09744	NCP	mg/L	0.017	0.017	1.0	30%	Pass	
Phenanthrene	S14-Ja09744	NCP	mg/L	0.0030	0.0027	9.0	30%	Pass	
Pyrene	S14-Ja09744	NCP	mg/L	0.0029	0.0025	13	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S14-Ja04561	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Cadmium	S14-Ja04561	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Chromium	S14-Ja04561	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Copper	S14-Ja04561	NCP	mg/L	0.22	0.22	1.0	30%	Pass	
Lead	S14-Ja04561	NCP	mg/L	0.13	0.13	2.0	30%	Pass	
Mercury	S14-Ja04561	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Nickel	S14-Ja04561	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Zinc	S14-Ja04561	NCP	mg/L	0.18	0.19	1.0	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
C01	Leachate Fluid Key: 1 - pH 5.0, 2 - pH 2.9, 3 - pH 9.2, 4 - Reagent (DI) water, 5 - Client sample, 6 - other
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs

Authorised By

Jean Heng	Client Services
James Norford	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)

Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

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From: Nathan Cussen [mailto:NCussen@jbsg.com.au]
Sent: Monday, 20 January 2014 6:13 PM
To: Jean Heng
Subject: Lab Batch 405422 - Green Square Road North

Me Again,

Can I please schedule the following TCLP's:

- FC063 1.6-1.8 for PAHs; and
- FC062 0.1-0.2 for metals.

Cheers,
Nathan

GnS # 406078

Nathan Cussen | Senior Environmental Consultant| JBS&G
Sydney | Melbourne | Adelaide | Perth | Brisbane
Level 1, 50 Margaret Street, Sydney NSW 2000
T: 02 8245 0300 | M: 0431 401 022| www.jbsg.com.au
Contaminated Land | Groundwater Remediation | Auditing and Compliance | Assessments and Approvals | Occupational Hygiene and Monitoring

If you would like to send through large electronic files (>25MB), please use JBS&G's secure internet-based file delivery system located at http://dropbox.yousendit.com/JBSG. Place 'Nathan Cussen - Sydney in the subject.
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ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

Melbourne
3-5 Kingston Town Close
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Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F6, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Sample Receipt Advice

Company name: **JBS & G (NSW & WA) Pty Ltd**

Contact name: Nathan Cussen
Client job number: GREEN SQUARE ROAD NORTH 43182
COC number: Not provided
Turn around time: 5 Day
Date/Time received: Jan 13, 2014 5:00 PM
Eurofins | mgt reference: **405422**

Sample information

☑ A detailed list of analytes logged into our LIMS, is included in the attached summary table.

☑ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt Sample Receipt : 7 degrees Celsius.

☑ All samples have been received as described on the above COC.

☑ COC has been completed correctly.

☑ Attempt to chill was evident.

☑ Appropriately preserved sample containers have been used.

☑ All samples were received in good condition.

☑ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.

☑ Organic samples had Teflon liners.

☒ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Contact notes

If you have any questions with respect to these samples please contact:

Jean Heng on Phone : (+61) (2) 9900 8400 or by e.mail: JeanHeng@eurofins.com.au

Results will be delivered electronically via e.mail to Nathan Cussen - ncussen@jbsg.com.au.

Eurofins | mgt Sample Receipt

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Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: GREEN SQUARE ROAD NORTH 43182

Order No.:
Report #: 405422
Phone: 02 8245 0300
Fax:

Received: Jan 13, 2014 5:00 PM
Due: Jan 21, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	Total Recoverable Hydrocarbons	Volatile Organics	JBS&G Suite 2
Laboratory where analysis is conducted													
Melbourne Laboratory - NATA Site # 1254 & 14271													
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794													
External Laboratory													
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**									
FC062 0.1-0.2	Jan 09, 2014		Soil	S14-Ja03494	X	X		X				X	X
FC062 0.5-0.7	Jan 09, 2014		Soil	S14-Ja03495			X						
FC062 1.5-1.7	Jan 09, 2014		Soil	S14-Ja03496			X						
FC062 2.8-3.0	Jan 09, 2014		Soil	S14-Ja03497			X						
FC062 3.8-4.0	Jan 09, 2014		Soil	S14-Ja03498	X				X	X	X		
FC062 4.5-4.7	Jan 09, 2014		Soil	S14-Ja03499			X						
FC063 0.1-0.2	Jan 09, 2014		Soil	S14-Ja03500			X						
FC063 0.7-0.9	Jan 09, 2014		Soil	S14-Ja03501			X						
FC063 1.6-1.8	Jan 09, 2014		Soil	S14-Ja03502	X	X		X	X	X	X		
FC063 2.8-3.0	Jan 09, 2014		Soil	S14-Ja03503			X						

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Address: Level 1, 50 Margaret St
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Client Job No.: GREEN SQUARE ROAD NORTH 43182

Order No.:
Report #: 405422
Phone: 02 8245 0300
Fax:

Received: Jan 13, 2014 5:00 PM
Due: Jan 21, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	Total Recoverable Hydrocarbons	Volatile Organics	JBS&G Suite 2
Laboratory where analysis is conducted													
Melbourne Laboratory - NATA Site # 1254 & 14271													
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794													
External Laboratory													
FC063 3.8-4.0	Jan 09, 2014		Soil	S14-Ja03504	X	X		X	X	X	X		
FC063 4.8-5.0	Jan 09, 2014		Soil	S14-Ja03505			X						
QC05	Jan 09, 2014		Soil	S14-Ja03506	X							X	X

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Certificate of Analysis

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Nathan Cussen**

Report **405422-S**
Client Reference GREEN SQUARE ROAD NORTH 43182
Received Date Jan 13, 2014

Client Sample ID **Sample Matrix** **Eurofins | mgt Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**FC062 0.1-0.2** **Soil** **S14-Ja03494** **Jan 09, 2014**	**FC062 3.8-4.0** **Soil** **S14-Ja03498** **Jan 09, 2014**	**FC063 1.6-1.8** **Soil** **S14-Ja03502** **Jan 09, 2014**	**FC063 3.8-4.0** **Soil** **S14-Ja03504** **Jan 09, 2014**
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	260	50
TRH C29-C36	50	mg/kg	< 50	< 50	370	50
TRH C10-36 (Total)	50	mg/kg	< 50	< 50	630	100
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	-	-
Toluene	0.1	mg/kg	< 0.1	-	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	-
o-Xylene	0.1	mg/kg	< 0.1	-	-	-
Xylenes - Total	0.3	mg/kg	< 0.3	-	-	-
4-Bromofluorobenzene (surr.)	1	%	123	-	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	510	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	590	< 100
Volatile Organics						
1.1-Dichloroethane	0.05	mg/kg	< 0.05	-	-	-
1.1-Dichloroethene	0.05	mg/kg	< 0.05	-	-	-
1.1.1-Trichloroethane	0.05	mg/kg	< 0.05	-	-	-
1.1.1.2-Tetrachloroethane	0.05	mg/kg	< 0.05	-	-	-
1.1.2-Trichloroethane	0.05	mg/kg	< 0.05	-	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dibromoethane	0.05	mg/kg	< 0.05	-	-	-
1.2-Dichlorobenzene	0.05	mg/kg	< 0.05	-	-	-
1.2-Dichloroethane	0.05	mg/kg	< 0.05	-	-	-
1.2-Dichloropropane	0.05	mg/kg	< 0.05	-	-	-
1.2.3-Trichloropropane	0.05	mg/kg	< 0.05	-	-	-
1.2.4-Trimethylbenzene	0.05	mg/kg	< 0.05	-	-	-
1.3-Dichlorobenzene	0.05	mg/kg	< 0.05	-	-	-
1.3-Dichloropropane	0.05	mg/kg	< 0.05	-	-	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC062 0.1-0.2 Soil S14-Ja03494 Jan 09, 2014	FC062 3.8-4.0 Soil S14-Ja03498 Jan 09, 2014	FC063 1.6-1.8 Soil S14-Ja03502 Jan 09, 2014	FC063 3.8-4.0 Soil S14-Ja03504 Jan 09, 2014
Volatile Organics						
1.3.5-Trimethylbenzene	0.05	mg/kg	< 0.05	-	-	-
1.4-Dichlorobenzene	0.05	mg/kg	< 0.05	-	-	-
2-Butanone (MEK)	0.05	mg/kg	< 0.05	-	-	-
4-Chlorotoluene	0.05	mg/kg	< 0.05	-	-	-
4-Methyl-2-pentanone (MIBK)	0.05	mg/kg	< 0.05	-	-	-
Benzene	0.1	mg/kg	< 0.1	-	-	-
Bromobenzene	0.05	mg/kg	< 0.05	-	-	-
Bromochloromethane	0.05	mg/kg	< 0.05	-	-	-
Bromodichloromethane	0.05	mg/kg	< 0.05	-	-	-
Bromoform	0.05	mg/kg	< 0.05	-	-	-
Bromomethane	0.05	mg/kg	< 0.05	-	-	-
Carbon disulfide	0.05	mg/kg	< 0.05	-	-	-
Carbon Tetrachloride	0.05	mg/kg	< 0.05	-	-	-
Chlorobenzene	0.05	mg/kg	< 0.05	-	-	-
Chloroethane	0.05	mg/kg	< 0.05	-	-	-
Chloroform	0.05	mg/kg	< 0.05	-	-	-
Chloromethane	0.05	mg/kg	< 0.05	-	-	-
cis-1.2-Dichloroethene	0.05	mg/kg	< 0.05	-	-	-
cis-1.3-Dichloropropene	0.05	mg/kg	< 0.05	-	-	-
Dibromochloromethane	0.05	mg/kg	< 0.05	-	-	-
Dibromomethane	0.5	mg/kg	< 0.5	-	-	-
Dichlorodifluoromethane	0.05	mg/kg	< 0.05	-	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	-
Iodomethane	0.05	mg/kg	< 0.05	-	-	-
Isopropyl benzene (Cumene)	0.05	mg/kg	< 0.05	-	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	-
Methylene Chloride	0.05	mg/kg	< 0.05	-	-	-
o-Xylene	0.1	mg/kg	< 0.1	-	-	-
Styrene	0.05	mg/kg	< 0.05	-	-	-
Tetrachloroethene	0.05	mg/kg	< 0.05	-	-	-
Toluene	0.1	mg/kg	< 0.1	-	-	-
trans-1.2-Dichloroethene	0.05	mg/kg	< 0.05	-	-	-
trans-1.3-Dichloropropene	0.05	mg/kg	< 0.05	-	-	-
Trichloroethene	0.05	mg/kg	< 0.05	-	-	-
Trichlorofluoromethane	0.05	mg/kg	< 0.05	-	-	-
Vinyl chloride	0.05	mg/kg	< 0.05	-	-	-
Xylenes - Total	0.3	mg/kg	< 0.3	-	-	-
Fluorobenzene (surr.)	1	%	100	-	-	-
4-Bromofluorobenzene (surr.)	1	%	123	-	-	-
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	3.4	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	4.2	< 0.5
Benz(a)anthracene	0.5	mg/kg	1.5	< 0.5	7.9	1.0
Benzo(a)pyrene	0.5	mg/kg	1.7	< 0.5	9.0	1.2
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	1.1	< 0.5	4.7	0.8
Benzo(g.h.i)perylene	0.5	mg/kg	1.4	< 0.5	4.9	0.9
Benzo(k)fluoranthene	0.5	mg/kg	2.1	< 0.5	9.4	1.3
Chrysene	0.5	mg/kg	1.5	< 0.5	7.2	1.1

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC062 0.1-0.2 Soil S14-Ja03494 Jan 09, 2014	FC062 3.8-4.0 Soil S14-Ja03498 Jan 09, 2014	FC063 1.6-1.8 Soil S14-Ja03502 Jan 09, 2014	FC063 3.8-4.0 Soil S14-Ja03504 Jan 09, 2014
Polycyclic Aromatic Hydrocarbons						
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	1.5	< 0.5
Fluoranthene	0.5	mg/kg	2.6	< 0.5	15	1.6
Fluorene	0.5	mg/kg	< 0.5	< 0.5	2.1	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	1.1	< 0.5	4.5	0.8
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	1.1	< 0.5
Phenanthrene	0.5	mg/kg	1.2	< 0.5	11	< 0.5
Pyrene	0.5	mg/kg	2.8	< 0.5	13	1.8
Total PAH	0.5	mg/kg	17	< 0.5	99	11
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	2.4	< 0.5	13	1.7
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	2.6	0.6	13	1.9
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	2.9	1.2	13	2.2
2-Fluorobiphenyl (surr.)	1	%	90	91	90	87
p-Terphenyl-d14 (surr.)	1	%	93	94	93	90
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	-
4.4'-DDD	0.05	mg/kg	< 0.05	-	-	-
4.4'-DDE	0.05	mg/kg	< 0.05	-	-	-
4.4'-DDT	0.05	mg/kg	< 0.05	-	-	-
a-BHC	0.05	mg/kg	< 0.05	-	-	-
Aldrin	0.05	mg/kg	< 0.05	-	-	-
b-BHC	0.05	mg/kg	< 0.05	-	-	-
d-BHC	0.05	mg/kg	< 0.05	-	-	-
Dieldrin	0.05	mg/kg	< 0.05	-	-	-
Endosulfan I	0.05	mg/kg	< 0.05	-	-	-
Endosulfan II	0.05	mg/kg	< 0.05	-	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	-
Endrin	0.05	mg/kg	< 0.05	-	-	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	-
Endrin ketone	0.05	mg/kg	< 0.05	-	-	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	-	-
Heptachlor	0.05	mg/kg	< 0.05	-	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	-
Methoxychlor	0.2	mg/kg	< 0.2	-	-	-
Toxaphene	1	mg/kg	< 1	-	-	-
Dibutylchlorendate (surr.)	1	%	119	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	73	-	-	-
Polychlorinated Biphenyls (PCB)						
Aroclor-1016	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1232	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1242	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1248	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1254	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1260	0.5	mg/kg	< 0.5	-	-	-
Total PCB	0.5	mg/kg	< 0.5	-	-	-
Dibutylchlorendate (surr.)	1	%	119	-	-	-
Conductivity (1:5 aqueous extract at 25°C)	5	uS/cm	190	-	160	160
pH (1:5 Aqueous extract)	0.1	units	8.2	-	8.3	8.4
% Moisture	0.1	%	14	18	18	18

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC062 0.1-0.2 Soil S14-Ja03494 Jan 09, 2014	FC062 3.8-4.0 Soil S14-Ja03498 Jan 09, 2014	FC063 1.6-1.8 Soil S14-Ja03502 Jan 09, 2014	FC063 3.8-4.0 Soil S14-Ja03504 Jan 09, 2014
Heavy Metals						
Arsenic	2	mg/kg	7.8	2.6	9.7	3.5
Cadmium	0.4	mg/kg	1.3	0.4	1.2	0.6
Chromium	5	mg/kg	18	7.0	20	10
Copper	5	mg/kg	210	59	190	89
Lead	5	mg/kg	470	120	400	190
Mercury	0.05	mg/kg	2.0	0.95	0.98	0.38
Nickel	5	mg/kg	48	6.6	21	14
Zinc	5	mg/kg	510	120	460	200

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	QC05 Soil S14-Ja03506 Jan 09, 2014
Total Recoverable Hydrocarbons - 1999 NEPM Fractions			
TRH C6-C9	20	mg/kg	< 20
TRH C10-C14	20	mg/kg	< 20
TRH C15-C28	50	mg/kg	< 50
TRH C29-C36	50	mg/kg	< 50
TRH C10-36 (Total)	50	mg/kg	< 50
BTEX			
Benzene	0.1	mg/kg	< 0.1
Toluene	0.1	mg/kg	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2
o-Xylene	0.1	mg/kg	< 0.1
Xylenes - Total	0.3	mg/kg	< 0.3
4-Bromofluorobenzene (surr.)	1	%	128
Total Recoverable Hydrocarbons - 2013 NEPM Fractions			
Naphthalene[N02]	0.5	mg/kg	< 0.5
TRH C6-C10	20	mg/kg	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20
TRH >C10-C16	50	mg/kg	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50
TRH >C16-C34	100	mg/kg	< 100
TRH >C34-C40	100	mg/kg	< 100
Volatile Organics			
1.1-Dichloroethane	0.05	mg/kg	< 0.05
1.1-Dichloroethene	0.05	mg/kg	< 0.05
1.1.1-Trichloroethane	0.05	mg/kg	< 0.05
1.1.1.2-Tetrachloroethane	0.05	mg/kg	< 0.05
1.1.2-Trichloroethane	0.05	mg/kg	< 0.05
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5
1.2-Dibromoethane	0.05	mg/kg	< 0.05
1.2-Dichlorobenzene	0.05	mg/kg	< 0.05
1.2-Dichloroethane	0.05	mg/kg	< 0.05
1.2-Dichloropropane	0.05	mg/kg	< 0.05
1.2.3-Trichloropropane	0.05	mg/kg	< 0.05

Client Sample ID			QC05
Sample Matrix			Soil
Eurofins | mgt Sample No.			S14-Ja03506
Date Sampled			Jan 09, 2014
Test/Reference	LOR	Unit	
Volatile Organics			
1.2.4-Trimethylbenzene	0.05	mg/kg	< 0.05
1.3-Dichlorobenzene	0.05	mg/kg	< 0.05
1.3-Dichloropropane	0.05	mg/kg	< 0.05
1.3.5-Trimethylbenzene	0.05	mg/kg	< 0.05
1.4-Dichlorobenzene	0.05	mg/kg	< 0.05
2-Butanone (MEK)	0.05	mg/kg	< 0.05
4-Chlorotoluene	0.05	mg/kg	< 0.05
4-Methyl-2-pentanone (MIBK)	0.05	mg/kg	< 0.05
Benzene	0.1	mg/kg	< 0.1
Bromobenzene	0.05	mg/kg	< 0.05
Bromochloromethane	0.05	mg/kg	< 0.05
Bromodichloromethane	0.05	mg/kg	< 0.05
Bromoform	0.05	mg/kg	< 0.05
Bromomethane	0.05	mg/kg	< 0.05
Carbon disulfide	0.05	mg/kg	< 0.05
Carbon Tetrachloride	0.05	mg/kg	< 0.05
Chlorobenzene	0.05	mg/kg	< 0.05
Chloroethane	0.05	mg/kg	< 0.05
Chloroform	0.05	mg/kg	< 0.05
Chloromethane	0.05	mg/kg	< 0.05
cis-1.2-Dichloroethene	0.05	mg/kg	< 0.05
cis-1.3-Dichloropropene	0.05	mg/kg	< 0.05
Dibromochloromethane	0.05	mg/kg	< 0.05
Dibromomethane	0.5	mg/kg	< 0.5
Dichlorodifluoromethane	0.05	mg/kg	< 0.05
Ethylbenzene	0.1	mg/kg	< 0.1
Iodomethane	0.05	mg/kg	< 0.05
Isopropyl benzene (Cumene)	0.05	mg/kg	< 0.05
m&p-Xylenes	0.2	mg/kg	< 0.2
Methylene Chloride	0.05	mg/kg	< 0.05
o-Xylene	0.1	mg/kg	< 0.1
Styrene	0.05	mg/kg	< 0.05
Tetrachloroethene	0.05	mg/kg	< 0.05
Toluene	0.1	mg/kg	< 0.1
trans-1.2-Dichloroethene	0.05	mg/kg	< 0.05
trans-1.3-Dichloropropene	0.05	mg/kg	< 0.05
Trichloroethene	0.05	mg/kg	< 0.05
Trichlorofluoromethane	0.05	mg/kg	< 0.05
Vinyl chloride	0.05	mg/kg	< 0.05
Xylenes - Total	0.3	mg/kg	< 0.3
Fluorobenzene (surr.)	1	%	95
4-Bromofluorobenzene (surr.)	1	%	128
Polycyclic Aromatic Hydrocarbons			
Acenaphthene	0.5	mg/kg	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5
Anthracene	0.5	mg/kg	0.5
Benz(a)anthracene	0.5	mg/kg	1.1
Benzo(a)pyrene	0.5	mg/kg	1.1
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	1.0

Client Sample ID			QC05
Sample Matrix			Soil
Eurofins | mgt Sample No.			S14-Ja03506
Date Sampled			Jan 09, 2014
Test/Reference	LOR	Unit	
Polycyclic Aromatic Hydrocarbons			
Benzo(g.h.i)perylene	0.5	mg/kg	0.8
Benzo(k)fluoranthene	0.5	mg/kg	1.2
Chrysene	0.5	mg/kg	1.0
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5
Fluoranthene	0.5	mg/kg	2.1
Fluorene	0.5	mg/kg	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	0.6
Naphthalene	0.5	mg/kg	< 0.5
Phenanthrene	0.5	mg/kg	1.6
Pyrene	0.5	mg/kg	2.1
Total PAH	0.5	mg/kg	13
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	1.6
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	1.8
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	2.1
2-Fluorobiphenyl (surr.)	1	%	90
p-Terphenyl-d14 (surr.)	1	%	95
Organochlorine Pesticides			
Chlordanes - Total	0.1	mg/kg	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05
a-BHC	0.05	mg/kg	< 0.05
Aldrin	0.05	mg/kg	< 0.05
b-BHC	0.05	mg/kg	< 0.05
d-BHC	0.05	mg/kg	< 0.05
Dieldrin	0.05	mg/kg	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05
Endrin	0.05	mg/kg	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05
Heptachlor	0.05	mg/kg	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05
Methoxychlor	0.2	mg/kg	< 0.2
Toxaphene	1	mg/kg	< 1
Dibutylchlorendate (surr.)	1	%	112
Tetrachloro-m-xylene (surr.)	1	%	72
Polychlorinated Biphenyls (PCB)			
Aroclor-1016	0.5	mg/kg	< 0.5
Aroclor-1232	0.5	mg/kg	< 0.5
Aroclor-1242	0.5	mg/kg	< 0.5
Aroclor-1248	0.5	mg/kg	< 0.5
Aroclor-1254	0.5	mg/kg	< 0.5
Aroclor-1260	0.5	mg/kg	< 0.5
Total PCB	0.5	mg/kg	< 0.5
Dibutylchlorendate (surr.)	1	%	112

Client Sample ID			QC05
Sample Matrix			**Soil**
Eurofins | mgt Sample No.			**S14-Ja03506**
Date Sampled			**Jan 09, 2014**
Test/Reference	LOR	Unit	
% Moisture	0.1	%	5.6
Heavy Metals			
Arsenic	2	mg/kg	4.1
Cadmium	0.4	mg/kg	1.3
Chromium	5	mg/kg	27
Copper	5	mg/kg	210
Lead	5	mg/kg	470
Mercury	0.05	mg/kg	2.6
Nickel	5	mg/kg	78
Zinc	5	mg/kg	430

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Jan 16, 2014	14 Day
- Method: E004 Petroleum Hydrocarbons (TPH)			
BTEX	Sydney	Jan 16, 2014	14 Day
- Method: E029/E016 BTEX			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jan 16, 2014	14 Day
- Method: LM-LTM-ORG2010			
Polycyclic Aromatic Hydrocarbons	Sydney	Jan 15, 2014	14 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Organochlorine Pesticides	Sydney	Jan 15, 2014	14 Day
- Method: E013 Organochlorine Pesticides (OC)			
Polychlorinated Biphenyls (PCB)	Sydney	Jan 15, 2014	28 Day
- Method: E013 Polychlorinated Biphenyls (PCB)			
Metals M8	Sydney	Jan 15, 2014	28 Day
- Method: E022 Acid Extractable metals in Soils & E026 Mercury			
Volatile Organics	Sydney	Jan 15, 2014	7 Day
- Method: E016 Volatile Organic Compounds (VOC)			
Conductivity (1:5 aqueous extract at 25°C)	Sydney	Jan 16, 2014	7 Day
- Method: E032.2 Electrical Conductivity (EC)			
pH (1:5 Aqueous extract)	Sydney	Jan 16, 2014	7 Day
- Method: E018.2 pH			
% Moisture	Sydney	Jan 15, 2014	28 Day
- Method: E005 Moisture Content			

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NATA # 1261 Site # 18217

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NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: GREEN SQUARE ROAD NORTH 43182

Order No.:
Report #: 405422
Phone: 02 8245 0300
Fax:

Received: Jan 13, 2014 5:00 PM
Due: Jan 21, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	Total Recoverable Hydrocarbons	Volatile Organics	JBS&G Suite 2
Laboratory where analysis is conducted													
Melbourne Laboratory - NATA Site # 1254 & 14271													
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794													
External Laboratory													
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**									
FC062 0.1-0.2	Jan 09, 2014		Soil	S14-Ja03494	X	X		X				X	X
FC062 0.5-0.7	Jan 09, 2014		Soil	S14-Ja03495			X						
FC062 1.5-1.7	Jan 09, 2014		Soil	S14-Ja03496			X						
FC062 2.8-3.0	Jan 09, 2014		Soil	S14-Ja03497			X						
FC062 3.8-4.0	Jan 09, 2014		Soil	S14-Ja03498	X				X	X	X		
FC062 4.5-4.7	Jan 09, 2014		Soil	S14-Ja03499			X						
FC063 0.1-0.2	Jan 09, 2014		Soil	S14-Ja03500			X						
FC063 0.7-0.9	Jan 09, 2014		Soil	S14-Ja03501			X						
FC063 1.6-1.8	Jan 09, 2014		Soil	S14-Ja03502	X	X		X	X	X	X		
FC063 2.8-3.0	Jan 09, 2014		Soil	S14-Ja03503			X						

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Laboratory where analysis is conducted													
Melbourne Laboratory - NATA Site # 1254 & 14271													
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794													
External Laboratory													
FC063 3.8-4.0	Jan 09, 2014		Soil	S14-Ja03504	X	X		X	X	X	X		
FC063 4.8-5.0	Jan 09, 2014		Soil	S14-Ja03505			X						
QC05	Jan 09, 2014		Soil	S14-Ja03506	X							X	X

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH C6-C10 less BTEX (F1)	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/kg	< 0.05			0.05	Pass	
1.1-Dichloroethene	mg/kg	< 0.05			0.05	Pass	
1.1.1-Trichloroethane	mg/kg	< 0.05			0.05	Pass	
1.1.1.2-Tetrachloroethane	mg/kg	< 0.05			0.05	Pass	
1.1.2-Trichloroethane	mg/kg	< 0.05			0.05	Pass	
1.1.2.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dibromoethane	mg/kg	< 0.05			0.05	Pass	
1.2-Dichlorobenzene	mg/kg	< 0.05			0.05	Pass	
1.2-Dichloroethane	mg/kg	< 0.05			0.05	Pass	
1.2-Dichloropropane	mg/kg	< 0.05			0.05	Pass	
1.2.3-Trichloropropane	mg/kg	< 0.05			0.05	Pass	
1.2.4-Trimethylbenzene	mg/kg	< 0.05			0.05	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.05			0.05	Pass	
1.3-Dichloropropane	mg/kg	< 0.05			0.05	Pass	
1.3.5-Trimethylbenzene	mg/kg	< 0.05			0.05	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.05			0.05	Pass	
2-Butanone (MEK)	mg/kg	< 0.05			0.05	Pass	
4-Chlorotoluene	mg/kg	< 0.05			0.05	Pass	
4-Methyl-2-pentanone (MIBK)	mg/kg	< 0.05			0.05	Pass	
Bromobenzene	mg/kg	< 0.05			0.05	Pass	
Bromochloromethane	mg/kg	< 0.05			0.05	Pass	
Bromodichloromethane	mg/kg	< 0.05			0.05	Pass	
Bromoform	mg/kg	< 0.05			0.05	Pass	
Bromomethane	mg/kg	< 0.05			0.05	Pass	
Carbon disulfide	mg/kg	< 0.05			0.05	Pass	
Carbon Tetrachloride	mg/kg	< 0.05			0.05	Pass	
Chlorobenzene	mg/kg	< 0.05			0.05	Pass	
Chloroethane	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Chloroform	mg/kg	< 0.05			0.05	Pass	
Chloromethane	mg/kg	< 0.05			0.05	Pass	
cis-1.2-Dichloroethene	mg/kg	< 0.05			0.05	Pass	
cis-1.3-Dichloropropene	mg/kg	< 0.05			0.05	Pass	
Dibromochloromethane	mg/kg	< 0.05			0.05	Pass	
Dibromomethane	mg/kg	< 0.5			0.5	Pass	
Dichlorodifluoromethane	mg/kg	< 0.05			0.05	Pass	
Iodomethane	mg/kg	< 0.05			0.05	Pass	
Isopropyl benzene (Cumene)	mg/kg	< 0.05			0.05	Pass	
Methylene Chloride	mg/kg	< 0.05			0.05	Pass	
Styrene	mg/kg	< 0.05			0.05	Pass	
Tetrachloroethene	mg/kg	< 0.05			0.05	Pass	
trans-1.2-Dichloroethene	mg/kg	< 0.05			0.05	Pass	
trans-1.3-Dichloropropene	mg/kg	< 0.05			0.05	Pass	
Trichloroethene	mg/kg	< 0.05			0.05	Pass	
Trichlorofluoromethane	mg/kg	< 0.05			0.05	Pass	
Vinyl chloride	mg/kg	< 0.05			0.05	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-BHC	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-BHC	mg/kg	< 0.05			0.05	Pass	
d-BHC	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-BHC (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.2			0.2	Pass	
Toxaphene	mg/kg	< 1			1	Pass	
Method Blank							
Polychlorinated Biphenyls (PCB)							
Aroclor-1016	mg/kg	< 0.5			0.5	Pass	
Aroclor-1232	mg/kg	< 0.5			0.5	Pass	
Aroclor-1242	mg/kg	< 0.5			0.5	Pass	
Aroclor-1248	mg/kg	< 0.5			0.5	Pass	
Aroclor-1254	mg/kg	< 0.5			0.5	Pass	
Aroclor-1260	mg/kg	< 0.5			0.5	Pass	
Total PCB	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.05			0.05	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	82			70-130	Pass	
TRH C10-C14	%	78			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	89			70-130	Pass	
Toluene	%	84			70-130	Pass	
Ethylbenzene	%	84			70-130	Pass	
m&p-Xylenes	%	84			70-130	Pass	
o-Xylene	%	95			70-130	Pass	
Xylenes - Total	%	88			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	107			70-130	Pass	
TRH C6-C10	%	83			70-130	Pass	
TRH >C10-C16	%	83			70-130	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethane	%	96			75-125	Pass	
1.1-Dichloroethene	%	99			70-130	Pass	
1.1.1-Trichloroethane	%	96			70-130	Pass	
1.1.1.2-Tetrachloroethane	%	99			70-130	Pass	
1.1.2-Trichloroethane	%	108			70-130	Pass	
1.1.2.2-Tetrachloroethane	%	120			70-130	Pass	
1.2-Dibromoethane	%	111			70-130	Pass	
1.2-Dichlorobenzene	%	105			70-130	Pass	
1.2-Dichloroethane	%	104			70-130	Pass	
1.2-Dichloropropane	%	101			70-130	Pass	
1.2.3-Trichloropropane	%	119			70-130	Pass	
1.2.4-Trimethylbenzene	%	104			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
1.3-Dichlorobenzene	%	106			70-130	Pass	
1.3-Dichloropropane	%	110			70-130	Pass	
1.3.5-Trimethylbenzene	%	106			70-130	Pass	
1.4-Dichlorobenzene	%	107			70-130	Pass	
2-Butanone (MEK)	%	112			70-130	Pass	
4-Chlorotoluene	%	107			70-130	Pass	
4-Methyl-2-pentanone (MIBK)	%	115			70-130	Pass	
Bromobenzene	%	111			70-130	Pass	
Bromochloromethane	%	99			70-130	Pass	
Bromodichloromethane	%	99			70-130	Pass	
Bromoform	%	104			70-130	Pass	
Bromomethane	%	98			70-130	Pass	
Carbon disulfide	%	116			70-130	Pass	
Carbon Tetrachloride	%	95			70-130	Pass	
Chlorobenzene	%	102			70-130	Pass	
Chloroethane	%	97			70-130	Pass	
Chloroform	%	98			70-130	Pass	
Chloromethane	%	89			70-130	Pass	
cis-1.2-Dichloroethene	%	99			70-130	Pass	
cis-1.3-Dichloropropene	%	100			70-130	Pass	
Dibromochloromethane	%	104			70-130	Pass	
Dibromomethane	%	86			70-130	Pass	
Iodomethane	%	92			75-125	Pass	
Isopropyl benzene (Cumene)	%	102			70-130	Pass	
Methylene Chloride	%	101			70-130	Pass	
Styrene	%	105			70-130	Pass	
Tetrachloroethene	%	105			70-130	Pass	
trans-1.2-Dichloroethene	%	98			70-130	Pass	
trans-1.3-Dichloropropene	%	100			70-130	Pass	
Trichloroethene	%	100			70-130	Pass	
Trichlorofluoromethane	%	91			70-130	Pass	
Vinyl chloride	%	87			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	122			70-130	Pass	
Acenaphthylene	%	116			70-130	Pass	
Anthracene	%	120			70-130	Pass	
Benz(a)anthracene	%	111			70-130	Pass	
Benzo(a)pyrene	%	112			70-130	Pass	
Benzo(b&j)fluoranthene	%	107			70-130	Pass	
Benzo(g.h.i)perylene	%	119			70-130	Pass	
Benzo(k)fluoranthene	%	124			70-130	Pass	
Chrysene	%	122			70-130	Pass	
Dibenz(a.h)anthracene	%	124			70-130	Pass	
Fluoranthene	%	115			70-130	Pass	
Fluorene	%	125			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	124			70-130	Pass	
Naphthalene	%	117			70-130	Pass	
Phenanthrene	%	113			70-130	Pass	
Pyrene	%	112			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	96			70-130	Pass	
4.4'-DDD	%	102			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
4.4'-DDE	%	100			70-130	Pass	
4.4'-DDT	%	87			70-130	Pass	
a-BHC	%	100			70-130	Pass	
Aldrin	%	102			70-130	Pass	
b-BHC	%	108			70-130	Pass	
d-BHC	%	104			70-130	Pass	
Dieldrin	%	97			70-130	Pass	
Endosulfan I	%	98			70-130	Pass	
Endosulfan II	%	96			70-130	Pass	
Endosulfan sulphate	%	98			70-130	Pass	
Endrin	%	90			70-130	Pass	
Endrin aldehyde	%	93			70-130	Pass	
Endrin ketone	%	88			70-130	Pass	
g-BHC (Lindane)	%	98			70-130	Pass	
Heptachlor	%	86			70-130	Pass	
Heptachlor epoxide	%	95			70-130	Pass	
Hexachlorobenzene	%	86			70-130	Pass	
Methoxychlor	%	84			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls (PCB)							
Aroclor-1260	%	93			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	93			70-130	Pass	
Cadmium	%	99			70-130	Pass	
Chromium	%	102			70-130	Pass	
Copper	%	110			70-130	Pass	
Lead	%	97			70-130	Pass	
Mercury	%	93			70-130	Pass	
Nickel	%	107			70-130	Pass	
Zinc	%	100			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S14-Ja03494	CP	%	77			70-130	Pass	
TRH C10-C14	S14-Ja03494	CP	%	84			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S14-Ja03494	CP	%	92			70-130	Pass	
Toluene	S14-Ja03494	CP	%	86			70-130	Pass	
Ethylbenzene	S14-Ja03494	CP	%	85			70-130	Pass	
m&p-Xylenes	S14-Ja03494	CP	%	87			70-130	Pass	
o-Xylene	S14-Ja03494	CP	%	98			70-130	Pass	
Xylenes - Total	S14-Ja03494	CP	%	90			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S14-Ja03494	CP	%	105			70-130	Pass	
TRH C6-C10	S14-Ja03494	CP	%	84			70-130	Pass	
TRH >C10-C16	S14-Ja03494	CP	%	95			70-130	Pass	
Spike - % Recovery									
Volatile Organics				Result 1					
1.1-Dichloroethane	S14-Ja03494	CP	%	90			75-125	Pass	
1.1-Dichloroethene	S14-Ja03494	CP	%	95			70-130	Pass	
1.1.1-Trichloroethane	S14-Ja03494	CP	%	89			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
1.1.1.2-Tetrachloroethane	S14-Ja03494	CP	%	97			70-130	Pass	
1.1.2-Trichloroethane	S14-Ja03494	CP	%	102			70-130	Pass	
1.1.2.2-Tetrachloroethane	S14-Ja03494	CP	%	118			70-130	Pass	
1.2-Dibromoethane	S14-Ja03494	CP	%	105			70-130	Pass	
1.2-Dichlorobenzene	S14-Ja03494	CP	%	97			70-130	Pass	
1.2-Dichloroethane	S14-Ja03494	CP	%	95			70-130	Pass	
1.2-Dichloropropane	S14-Ja03494	CP	%	96			70-130	Pass	
1.2.3-Trichloropropane	S14-Ja03494	CP	%	110			70-130	Pass	
1.2.4-Trimethylbenzene	S14-Ja03494	CP	%	98			70-130	Pass	
1.3-Dichlorobenzene	S14-Ja03494	CP	%	98			70-130	Pass	
1.3-Dichloropropane	S14-Ja03494	CP	%	104			70-130	Pass	
1.3.5-Trimethylbenzene	S14-Ja03494	CP	%	99			70-130	Pass	
1.4-Dichlorobenzene	S14-Ja03494	CP	%	99			70-130	Pass	
2-Butanone (MEK)	S14-Ja03494	CP	%	103			70-130	Pass	
4-Chlorotoluene	S14-Ja03494	CP	%	99			70-130	Pass	
4-Methyl-2-pentanone (MIBK)	S14-Ja03494	CP	%	103			70-130	Pass	
Bromobenzene	S14-Ja03494	CP	%	102			70-130	Pass	
Bromochloromethane	S14-Ja03494	CP	%	93			70-130	Pass	
Bromodichloromethane	S14-Ja03494	CP	%	93			70-130	Pass	
Bromoform	S14-Ja03494	CP	%	97			70-130	Pass	
Bromomethane	S14-Ja03494	CP	%	95			70-130	Pass	
Carbon disulfide	S14-Ja03494	CP	%	114			70-130	Pass	
Carbon Tetrachloride	S14-Ja03494	CP	%	88			70-130	Pass	
Chlorobenzene	S14-Ja03494	CP	%	102			70-130	Pass	
Chloroethane	S14-Ja03494	CP	%	93			70-130	Pass	
Chloroform	S14-Ja03494	CP	%	94			70-130	Pass	
Chloromethane	S14-Ja03494	CP	%	78			70-130	Pass	
cis-1.2-Dichloroethene	S14-Ja03494	CP	%	93			70-130	Pass	
cis-1.3-Dichloropropene	S14-Ja03494	CP	%	92			70-130	Pass	
Dibromochloromethane	S14-Ja03494	CP	%	96			70-130	Pass	
Dibromomethane	S14-Ja03494	CP	%	90			70-130	Pass	
Iodomethane	S14-Ja03494	CP	%	88			75-125	Pass	
Isopropyl benzene (Cumene)	S14-Ja03494	CP	%	102			70-130	Pass	
Methylene Chloride	S14-Ja03494	CP	%	96			70-130	Pass	
Styrene	S14-Ja03494	CP	%	101			70-130	Pass	
Tetrachloroethene	S14-Ja03494	CP	%	101			70-130	Pass	
trans-1.2-Dichloroethene	S14-Ja03494	CP	%	98			70-130	Pass	
trans-1.3-Dichloropropene	S14-Ja03494	CP	%	92			70-130	Pass	
Trichloroethene	S14-Ja03494	CP	%	96			70-130	Pass	
Trichlorofluoromethane	S14-Ja03494	CP	%	88			70-130	Pass	
Vinyl chloride	S14-Ja03494	CP	%	85			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S14-Ja03494	CP	%	119			70-130	Pass	
Acenaphthylene	S14-Ja03494	CP	%	123			70-130	Pass	
Anthracene	S14-Ja03494	CP	%	122			70-130	Pass	
Benz(a)anthracene	S14-Ja03494	CP	%	90			70-130	Pass	
Benzo(a)pyrene	S14-Ja03494	CP	%	94			70-130	Pass	
Benzo(b&j)fluoranthene	S14-Ja03494	CP	%	119			70-130	Pass	
Benzo(g.h.i)perylene	S14-Ja03494	CP	%	107			70-130	Pass	
Benzo(k)fluoranthene	S14-Ja03494	CP	%	57			70-130	Fail	Q08
Chrysene	S14-Ja03494	CP	%	95			70-130	Pass	
Dibenz(a.h)anthracene	S14-Ja03494	CP	%	125			70-130	Pass	
Fluoranthene	S14-Ja03494	CP	%	71			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Fluorene	S14-Ja03494	CP	%	124			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja03494	CP	%	112			70-130	Pass	
Naphthalene	S14-Ja03494	CP	%	118			70-130	Pass	
Phenanthrene	S14-Ja03494	CP	%	94			70-130	Pass	
Pyrene	S14-Ja03494	CP	%	69			70-130	Fail	Q08
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S14-Ja03494	CP	%	100			70-130	Pass	
4.4'-DDD	S14-Ja03494	CP	%	122			70-130	Pass	
4.4'-DDE	S14-Ja03494	CP	%	105			70-130	Pass	
4.4'-DDT	S14-Ja03494	CP	%	70			70-130	Pass	
a-BHC	S14-Ja03494	CP	%	110			70-130	Pass	
Aldrin	S14-Ja03494	CP	%	104			70-130	Pass	
b-BHC	S14-Ja03494	CP	%	115			70-130	Pass	
d-BHC	S14-Ja03494	CP	%	118			70-130	Pass	
Dieldrin	S14-Ja03494	CP	%	96			70-130	Pass	
Endosulfan I	S14-Ja03494	CP	%	107			70-130	Pass	
Endosulfan II	S14-Ja03494	CP	%	95			70-130	Pass	
Endosulfan sulphate	S14-Ja03494	CP	%	91			70-130	Pass	
Endrin	S14-Ja03494	CP	%	99			70-130	Pass	
Endrin aldehyde	S14-Ja03494	CP	%	83			70-130	Pass	
Endrin ketone	S14-Ja03494	CP	%	85			70-130	Pass	
g-BHC (Lindane)	S14-Ja03494	CP	%	111			70-130	Pass	
Heptachlor	S14-Ja03494	CP	%	96			70-130	Pass	
Heptachlor epoxide	S14-Ja03494	CP	%	101			70-130	Pass	
Hexachlorobenzene	S14-Ja03494	CP	%	107			70-130	Pass	
Methoxychlor	S14-Ja03494	CP	%	84			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S14-Ja03485	NCP	%	106			70-130	Pass	
Cadmium	S14-Ja03485	NCP	%	114			70-130	Pass	
Chromium	S14-Ja03485	NCP	%	124			70-130	Pass	
Copper	S14-Ja03551	NCP	%	111			70-130	Pass	
Lead	S14-Ja03551	NCP	%	104			70-130	Pass	
Mercury	S14-Ja04702	NCP	%	117			70-130	Pass	
Nickel	S14-Ja03485	NCP	%	110			70-130	Pass	
Zinc	S14-Ja03551	NCP	%	104			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S14-Ja03494	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S14-Ja03494	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S14-Ja03494	CP	mg/kg	< 50	66	29	30%	Pass	
TRH C29-C36	S14-Ja03494	CP	mg/kg	< 50	66	45	30%	Fail	Q15
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S14-Ja03494	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S14-Ja03494	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S14-Ja03494	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S14-Ja03494	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S14-Ja03494	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total	S14-Ja03494	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	

Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S14-Ja03494	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S14-Ja03494	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S14-Ja03494	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S14-Ja03494	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S14-Ja03494	CP	mg/kg	< 100	120	35	30%	Fail	Q15
TRH >C34-C40	S14-Ja03494	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	S14-Ja03494	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.1-Dichloroethene	S14-Ja03494	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.1.1-Trichloroethane	S14-Ja03494	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	S14-Ja03494	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.1.2-Trichloroethane	S14-Ja03494	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	S14-Ja03494	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromoethane	S14-Ja03494	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.2-Dichlorobenzene	S14-Ja03494	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.2-Dichloroethane	S14-Ja03494	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.2-Dichloropropane	S14-Ja03494	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.2.3-Trichloropropane	S14-Ja03494	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.2.4-Trimethylbenzene	S14-Ja03494	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.3-Dichlorobenzene	S14-Ja03494	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.3-Dichloropropane	S14-Ja03494	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.3.5-Trimethylbenzene	S14-Ja03494	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.4-Dichlorobenzene	S14-Ja03494	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
2-Butanone (MEK)	S14-Ja03494	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4-Chlorotoluene	S14-Ja03494	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	S14-Ja03494	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Bromobenzene	S14-Ja03494	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Bromochloromethane	S14-Ja03494	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Bromodichloromethane	S14-Ja03494	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Bromoform	S14-Ja03494	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Bromomethane	S14-Ja03494	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Carbon disulfide	S14-Ja03494	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Carbon Tetrachloride	S14-Ja03494	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Chlorobenzene	S14-Ja03494	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Chloroethane	S14-Ja03494	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Chloroform	S14-Ja03494	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Chloromethane	S14-Ja03494	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
cis-1.2-Dichloroethene	S14-Ja03494	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
cis-1.3-Dichloropropene	S14-Ja03494	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dibromochloromethane	S14-Ja03494	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dibromomethane	S14-Ja03494	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorodifluoromethane	S14-Ja03494	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Iodomethane	S14-Ja03494	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Isopropyl benzene (Cumene)	S14-Ja03494	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methylene Chloride	S14-Ja03494	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Styrene	S14-Ja03494	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Tetrachloroethene	S14-Ja03494	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
trans-1.2-Dichloroethene	S14-Ja03494	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
trans-1.3-Dichloropropene	S14-Ja03494	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Trichloroethene	S14-Ja03494	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Trichlorofluoromethane	S14-Ja03494	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Vinyl chloride	S14-Ja03494	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	

Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S14-Ja03494	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S14-Ja03494	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S14-Ja03494	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S14-Ja03494	CP	mg/kg	1.5	1.5	1.0	30%	Pass	
Benzo(a)pyrene	S14-Ja03494	CP	mg/kg	1.7	1.9	8.0	30%	Pass	
Benzo(b&j)fluoranthene	S14-Ja03494	CP	mg/kg	1.1	1.1	2.0	30%	Pass	
Benzo(g.h.i)perylene	S14-Ja03494	CP	mg/kg	1.4	1.4	2.0	30%	Pass	
Benzo(k)fluoranthene	S14-Ja03494	CP	mg/kg	2.1	2.0	7.0	30%	Pass	
Chrysene	S14-Ja03494	CP	mg/kg	1.5	1.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S14-Ja03494	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S14-Ja03494	CP	mg/kg	2.6	2.1	20	30%	Pass	
Fluorene	S14-Ja03494	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja03494	CP	mg/kg	1.1	1.1	1.0	30%	Pass	
Naphthalene	S14-Ja03494	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S14-Ja03494	CP	mg/kg	1.2	1.0	26	30%	Pass	
Pyrene	S14-Ja03494	CP	mg/kg	2.8	2.4	14	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S14-Ja03494	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S14-Ja03494	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S14-Ja03494	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S14-Ja03494	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	S14-Ja03494	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S14-Ja03494	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	S14-Ja03494	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-BHC	S14-Ja03494	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S14-Ja03494	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S14-Ja03494	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S14-Ja03494	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S14-Ja03494	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S14-Ja03494	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S14-Ja03494	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S14-Ja03494	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	S14-Ja03494	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S14-Ja03494	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S14-Ja03494	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S14-Ja03494	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S14-Ja03494	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Toxaphene	S14-Ja03494	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls (PCB)				Result 1	Result 2	RPD			
Aroclor-1016	S14-Ja03494	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1232	S14-Ja03494	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1242	S14-Ja03494	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1248	S14-Ja03494	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1254	S14-Ja03494	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1260	S14-Ja03494	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Conductivity (1:5 aqueous extract at 25°C)	S14-Ja03494	CP	uS/cm	190	200	<1	30%	Pass	

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S14-Ja03485	NCP	mg/kg	5.8	6.0	3.0	30%	Pass	
Cadmium	S14-Ja03485	NCP	mg/kg	1.3	1.2	11	30%	Pass	
Chromium	S14-Ja03485	NCP	mg/kg	15	18	16	30%	Pass	
Copper	S14-Ja03485	NCP	mg/kg	200	270	28	30%	Pass	
Lead	S14-Ja03485	NCP	mg/kg	3000	3400	13	30%	Pass	
Mercury	S14-Ja04702	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Nickel	S14-Ja03485	NCP	mg/kg	12	13	9.0	30%	Pass	
Zinc	S14-Ja03485	NCP	mg/kg	750	800	7.0	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q08	The matrix spike recovery is outside of the recommended acceptance criteria. An acceptable recovery was obtained for the laboratory control sample indicating a sample matrix interference
Q15	The RPD reported passes Eurofins | mgt's Acceptance Criteria as stipulated in SOP 05. Refer to Glossary Page of this report for further details

Authorised By

Jean Heng	Client Services
Bob Symons	Senior Analyst-Inorganic (NSW)
James Norford	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)
Ryan Hamilton	Senior Analyst-Volatile (NSW)

Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

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eurofins | mgt
Unit F3-F6 Building F, Parkview Building
16 Mars Road, Lane Cove West
NSW 2066

CHAIN OF CUSTODY

A405422

PROJECT NO.: 43182
PROJECT NAME: Green Square Road North
SEND REPORT TO: N Cusson SEND INVOICE TO: E Ng
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: Chris
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: ncusson

QC LEVEL: NEPM (2013)

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	JB1	JB1T	JB1A	JB2	JB2A	B10	JB2/JBL	JB3/JBL	JB4	JBL	VOCs	8 Metals	TPH	PAH	BTEX	PH	EC				NOTES:
FC062 0.1-0.2	Soil	9/1/14		Ice + Ice					X							X						X				
FC062 0.5-0.7																										
FC062 1.5-1.7																										
FC062 2.8-3.0																										
FC062 3.8-4.0																										
FC062 4.5-4.7																	X	X	X							
FC063 0.1-0.2																										
FC063 0.7-0.9																										
FC063 1.6-1.8																										
FC063 2.8-3.0																	X	X	X		X	X				
FC063 3.8-4.0																										
FC063 4.8-5.0																	X	X	X		X	X				
QC05								X								X										

RELINQUISHED BY:
NAME: Nathan DATE: 10/1/14
OF: JBS&G

NAME: DATE:
OF:

METHOD OF SHIPMENT:
CONSIGNMENT NOTE NO.
TRANSPORT CO.

CONSIGNMENT NOTE NO.
TRANSPORT CO

RECEIVED BY:
NAME: Ethan Ng DATE: 130114
OF: Eurofins 1700

NAME: DATE:
OF:

FOR RECEIVING LAB USE ONLY:
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C

COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - eurofins mgt

JB1 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1T - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos
JB2 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
B10 - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2/JBL - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)
JB3/JBL - TRH/BTEX/PAH/OCP/OPP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)/Asbestos
JB4 - TRH/BTEX/VOC
JBL - TCLP(PAH & 6 Metals)

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

SAMPLE RECEIPT ADVICE

Client:

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney NSW 2000

ph: 02 8245 0300
Fax: 02 8245 0399

Attention: Joanne Rosner, Nathan Cussen

Sample log in details:

Your reference:	**43182, Green Square Road North**
Envirolab Reference:	**103460**
Date received:	14/01/14
Date results expected to be reported:	**21/01/14**

Samples received in appropriate condition for analysis:	YES
No. of samples provided	1 soil
Turnaround time requested:	Standard
Temperature on receipt (°C)	NA
Cooling Method:	None
Sampling Date Provided:	YES

Comments:

Samples will be held for 1 month for water samples and 2 months for soil samples from date of receipt of samples.

Contact details:

Please direct any queries to Aileen Hie or Jacinta Hurst
ph: 02 9910 6200 fax: 02 9910 6201
email: ahie@envirolabservices.com.au or jhurst@envirolabservices.com.au

Envirolab Services Pty Ltd
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12 Ashley St Chatswood NSW 2067
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CERTIFICATE OF ANALYSIS 103460

Client:
JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention: Joanne Rosner, Nathan Cussen

Sample log in details:

Your Reference:	**43182, Green Square Road North**		
No. of samples:	1 soil		
Date samples received / completed instructions received	14/01/14	/	14/01/14

Analysis Details:
Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by: / Issue Date:	21/01/14	/	20/01/14
Date of Preliminary Report:	Not issued		

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Accredited for compliance with ISO/IEC 17025. **Tests not covered by NATA are denoted with *.**

Results Approved By:

Jacinta Hurst
Laboratory Manager

VOCs in soil Our Reference: Your Reference Date Sampled Type of sample	UNITS ---------- ----------	 103460-1 QC05-A 09/01/2014 soil
Date extracted	-	15/01/2014
Date analysed	-	16/01/2014
Dichlorodifluoromethane	mg/kg	<1
Chloromethane	mg/kg	<1
Vinyl Chloride	mg/kg	<1
Bromomethane	mg/kg	<1
Chloroethane	mg/kg	<1
Trichlorofluoromethane	mg/kg	<1
1,1-Dichloroethene	mg/kg	<1
trans-1,2-dichloroethene	mg/kg	<1
1,1-dichloroethane	mg/kg	<1
cis-1,2-dichloroethene	mg/kg	<1
bromochloromethane	mg/kg	<1
chloroform	mg/kg	<1
2,2-dichloropropane	mg/kg	<1
1,2-dichloroethane	mg/kg	<1
1,1,1-trichloroethane	mg/kg	<1
1,1-dichloropropene	mg/kg	<1
Cyclohexane	mg/kg	<1
carbon tetrachloride	mg/kg	<1
Benzene	mg/kg	<0.2
dibromomethane	mg/kg	<1
1,2-dichloropropane	mg/kg	<1
trichloroethene	mg/kg	<1
bromodichloromethane	mg/kg	<1
trans-1,3-dichloropropene	mg/kg	<1
cis-1,3-dichloropropene	mg/kg	<1
1,1,2-trichloroethane	mg/kg	<1
Toluene	mg/kg	<0.5
1,3-dichloropropane	mg/kg	<1
dibromochloromethane	mg/kg	<1
1,2-dibromoethane	mg/kg	<1
tetrachloroethene	mg/kg	<1
1,1,1,2-tetrachloroethane	mg/kg	<1
chlorobenzene	mg/kg	<1
Ethylbenzene	mg/kg	<1
bromoform	mg/kg	<1
m+p-xylene	mg/kg	<2
styrene	mg/kg	<1
1,1,2,2-tetrachloroethane	mg/kg	<1
o-Xylene	mg/kg	<1
1,2,3-trichloropropane	mg/kg	<1

VOCs in soil		
Our Reference:	UNITS	103460-1
Your Reference	----------	QC05-A
Date Sampled	----------	09/01/2014
Type of sample		soil
isopropylbenzene	mg/kg	<1
bromobenzene	mg/kg	<1
n-propyl benzene	mg/kg	<1
2-chlorotoluene	mg/kg	<1
4-chlorotoluene	mg/kg	<1
1,3,5-trimethyl benzene	mg/kg	<1
tert-butyl benzene	mg/kg	<1
1,2,4-trimethyl benzene	mg/kg	<1
1,3-dichlorobenzene	mg/kg	<1
sec-butyl benzene	mg/kg	<1
1,4-dichlorobenzene	mg/kg	<1
4-isopropyl toluene	mg/kg	<1
1,2-dichlorobenzene	mg/kg	<1
n-butyl benzene	mg/kg	<1
1,2-dibromo-3-chloropropane	mg/kg	<1
1,2,4-trichlorobenzene	mg/kg	<1
hexachlorobutadiene	mg/kg	<1
1,2,3-trichlorobenzene	mg/kg	<1
Surrogate Dibromofluorometha	%	88
Surrogate aaa-Trifluorotoluene	%	95
Surrogate Toluene-d_8	%	94
Surrogate 4-Bromofluorobenzene	%	108

vTRH(C6-C10)/BTEXN in Soil		
Our Reference:	UNITS	103460-1
Your Reference	----------	QC05-A
Date Sampled	----------	09/01/2014
Type of sample		soil
Date extracted	-	15/01/2014
Date analysed	-	16/01/2014
TRHC$_6$ - C$_9$	mg/kg	<25
TRHC$_6$ - C$_{10}$	mg/kg	<25
vTPHC$_6$ - C$_{10}$ less BTEX (F1)	mg/kg	<25
Benzene	mg/kg	<0.2
Toluene	mg/kg	<0.5
Ethylbenzene	mg/kg	<1
m+p-xylene	mg/kg	<2
o-Xylene	mg/kg	<1
naphthalene	mg/kg	<1
Surrogate aaa-Trifluorotoluene	%	95

svTRH (C10-C40) in Soil		
Our Reference:	UNITS	103460-1
Your Reference	----------	QC05-A
Date Sampled	----------	09/01/2014
Type of sample		soil
Date extracted	-	15/01/2014
Date analysed	-	16/01/2014
TRHC$_{10}$ - C$_{14}$	mg/kg	<50
TRHC$_{15}$ - C$_{28}$	mg/kg	<100
TRHC$_{29}$ - C$_{36}$	mg/kg	<100
TRH>C$_{10}$-C$_{16}$	mg/kg	<50
TRH>C$_{10}$ - C$_{16}$ less Naphthalene (F2)	mg/kg	<50
TRH>C$_{16}$-C$_{34}$	mg/kg	140
TRH>C$_{34}$-C$_{40}$	mg/kg	<100
Surrogate o-Terphenyl	%	88

PAHs in Soil		
Our Reference:	UNITS	103460-1
Your Reference	----------	QC05-A
Date Sampled	----------	09/01/2014
Type of sample		soil
Date extracted	-	15/01/2014
Date analysed	-	16/01/2014
Naphthalene	mg/kg	<0.1
Acenaphthylene	mg/kg	0.3
Acenaphthene	mg/kg	<0.1
Fluorene	mg/kg	0.1
Phenanthrene	mg/kg	2.2
Anthracene	mg/kg	0.5
Fluoranthene	mg/kg	4.0
Pyrene	mg/kg	4.2
Benzo(a)anthracene	mg/kg	2.0
Chrysene	mg/kg	2.1
Benzo(b+k)fluoranthene	mg/kg	4.0
Benzo(a)pyrene	mg/kg	2.6
Indeno(1,2,3-c,d)pyrene	mg/kg	1.8
Dibenzo(a,h)anthracene	mg/kg	0.3
Benzo(g,h,i)perylene	mg/kg	1.7
Benzo(a)pyrene TEQ NEPM B1	mg/kg	4.0
Total +ve PAH's	mg/kg	26
Surrogate p-Terphenyl-d14	%	117

Organochlorine Pesticides in soil		
Our Reference:	UNITS	103460-1
Your Reference	----------	QC05-A
Date Sampled	----------	09/01/2014
Type of sample		soil
Date extracted	-	15/01/2014
Date analysed	-	17/01/2014
HCB	mg/kg	<0.1
alpha-BHC	mg/kg	<0.1
gamma-BHC	mg/kg	<0.1
beta-BHC	mg/kg	<0.1
Heptachlor	mg/kg	<0.1
delta-BHC	mg/kg	<0.1
Aldrin	mg/kg	<0.1
Heptachlor Epoxide	mg/kg	<0.1
gamma-Chlordane	mg/kg	<0.1
alpha-chlordane	mg/kg	<0.1
Endosulfan I	mg/kg	<0.1
pp-DDE	mg/kg	<0.1
Dieldrin	mg/kg	<0.1
Endrin	mg/kg	<0.1
pp-DDD	mg/kg	<0.1
Endosulfan II	mg/kg	<0.1
pp-DDT	mg/kg	<0.1
Endrin Aldehyde	mg/kg	<0.1
Endosulfan Sulphate	mg/kg	<0.1
Methoxychlor	mg/kg	<0.1
Surrogate TCMX	%	91

PCBs in Soil		
Our Reference:	UNITS	103460-1
Your Reference	----------	QC05-A
Date Sampled	----------	09/01/2014
Type of sample		soil
Date extracted	-	15/01/2014
Date analysed	-	17/01/2014
Arochlor 1016	mg/kg	<0.1
Arochlor 1221	mg/kg	<0.1
Arochlor 1232	mg/kg	<0.1
Arochlor 1242	mg/kg	<0.1
Arochlor 1248	mg/kg	<0.1
Arochlor 1254	mg/kg	<0.1
Arochlor 1260	mg/kg	<0.1
Surrogate TCLMX	%	91

Acid Extractable metals in soil		
Our Reference:	UNITS	103460-1
Your Reference	----------	QC05-A
Date Sampled	----------	09/01/2014
Type of sample		soil
Date digested	-	15/01/2014
Date analysed	-	15/01/2014
Arsenic	mg/kg	4
Cadmium	mg/kg	0.6
Chromium	mg/kg	16
Copper	mg/kg	140
Lead	mg/kg	260
Mercury	mg/kg	0.8
Nickel	mg/kg	40
Zinc	mg/kg	280

Moisture		
Our Reference:	UNITS	103460-1
Your Reference	----------	QC05-A
Date Sampled	----------	09/01/2014
Type of sample		soil
Date prepared	-	15/01/2014
Date analysed	-	16/01/2014
Moisture	%	5.2

Method ID	Methodology Summary
Org-014	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-016	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-003	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note Naphthalene is determined from the VOC analysis.
Org-012 subset	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.
Org-005	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.
Org-006	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.
Metals-020 ICP-AES	Determination of various metals by ICP-AES.
Metals-021 CV-AAS	Determination of Mercury by Cold Vapour AAS.
Inorg-008	Moisture content determined by heating at 105+/-5 deg C for a minimum of 12 hours.

QUALITY CONTROL VOCs in soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			15/01/2014	103460-1	15/01/2014 || 15/01/2014	LCS-2	15/01/2014
Date analysed	-			16/01/2014	103460-1	16/01/2014 || 16/01/2014	LCS-2	16/01/2014
Dichlorodifluoromethane	mg/kg	1	Org-014	<1	103460-1	<1 || <1	[NR]	[NR]
Chloromethane	mg/kg	1	Org-014	<1	103460-1	<1 || <1	[NR]	[NR]
Vinyl Chloride	mg/kg	1	Org-014	<1	103460-1	<1 || <1	[NR]	[NR]
Bromomethane	mg/kg	1	Org-014	<1	103460-1	<1 || <1	[NR]	[NR]
Chloroethane	mg/kg	1	Org-014	<1	103460-1	<1 || <1	[NR]	[NR]
Trichlorofluoromethane	mg/kg	1	Org-014	<1	103460-1	<1 || <1	[NR]	[NR]
1,1-Dichloroethene	mg/kg	1	Org-014	<1	103460-1	<1 || <1	[NR]	[NR]
trans-1,2-dichloroethene	mg/kg	1	Org-014	<1	103460-1	<1 || <1	[NR]	[NR]
1,1-dichloroethane	mg/kg	1	Org-014	<1	103460-1	<1 || <1	LCS-2	119%
cis-1,2-dichloroethene	mg/kg	1	Org-014	<1	103460-1	<1 || <1	[NR]	[NR]
bromochloromethane	mg/kg	1	Org-014	<1	103460-1	<1 || <1	[NR]	[NR]
chloroform	mg/kg	1	Org-014	<1	103460-1	<1 || <1	LCS-2	116%
2,2-dichloropropane	mg/kg	1	Org-014	<1	103460-1	<1 || <1	[NR]	[NR]
1,2-dichloroethane	mg/kg	1	Org-014	<1	103460-1	<1 || <1	LCS-2	103%
1,1,1-trichloroethane	mg/kg	1	Org-014	<1	103460-1	<1 || <1	LCS-2	105%
1,1-dichloropropene	mg/kg	1	Org-014	<1	103460-1	<1 || <1	[NR]	[NR]
Cyclohexane	mg/kg	1	Org-014	<1	103460-1	<1 || <1	[NR]	[NR]
carbon tetrachloride	mg/kg	1	Org-014	<1	103460-1	<1 || <1	[NR]	[NR]
Benzene	mg/kg	0.2	Org-014	<0.2	103460-1	<0.2 || <0.2	[NR]	[NR]
dibromomethane	mg/kg	1	Org-014	<1	103460-1	<1 || <1	[NR]	[NR]
1,2-dichloropropane	mg/kg	1	Org-014	<1	103460-1	<1 || <1	[NR]	[NR]
trichloroethene	mg/kg	1	Org-014	<1	103460-1	<1 || <1	LCS-2	89%
bromodichloromethane	mg/kg	1	Org-014	<1	103460-1	<1 || <1	LCS-2	79%
trans-1,3-dichloropropene	mg/kg	1	Org-014	<1	103460-1	<1 || <1	[NR]	[NR]
cis-1,3-dichloropropene	mg/kg	1	Org-014	<1	103460-1	<1 || <1	[NR]	[NR]
1,1,2-trichloroethane	mg/kg	1	Org-014	<1	103460-1	<1 || <1	[NR]	[NR]
Toluene	mg/kg	0.5	Org-014	<0.5	103460-1	<0.5 || <0.5	[NR]	[NR]
1,3-dichloropropane	mg/kg	1	Org-014	<1	103460-1	<1 || <1	[NR]	[NR]
dibromochloromethane	mg/kg	1	Org-014	<1	103460-1	<1 || <1	LCS-2	68%
1,2-dibromoethane	mg/kg	1	Org-014	<1	103460-1	<1 || <1	[NR]	[NR]
tetrachloroethene	mg/kg	1	Org-014	<1	103460-1	<1 || <1	LCS-2	104%
1,1,1,2-tetrachloroethane	mg/kg	1	Org-014	<1	103460-1	<1 || <1	[NR]	[NR]
chlorobenzene	mg/kg	1	Org-014	<1	103460-1	<1 || <1	[NR]	[NR]
Ethylbenzene	mg/kg	1	Org-014	<1	103460-1	<1 || <1	[NR]	[NR]
bromoform	mg/kg	1	Org-014	<1	103460-1	<1 || <1	[NR]	[NR]
m+p-xylene	mg/kg	2	Org-014	<2	103460-1	<2 || <2	[NR]	[NR]
styrene	mg/kg	1	Org-014	<1	103460-1	<1 || <1	[NR]	[NR]
1,1,2,2-tetrachloroethane	mg/kg	1	Org-014	<1	103460-1	<1 || <1	[NR]	[NR]
o-Xylene	mg/kg	1	Org-014	<1	103460-1	<1 || <1	[NR]	[NR]
1,2,3-trichloropropane	mg/kg	1	Org-014	<1	103460-1	<1 || <1	[NR]	[NR]

QUALITY CONTROL VOCs in soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
isopropylbenzene	mg/kg	1	Org-014	<1	103460-1	<1 || <1	[NR]	[NR]
bromobenzene	mg/kg	1	Org-014	<1	103460-1	<1 || <1	[NR]	[NR]
n-propyl benzene	mg/kg	1	Org-014	<1	103460-1	<1 || <1	[NR]	[NR]
2-chlorotoluene	mg/kg	1	Org-014	<1	103460-1	<1 || <1	[NR]	[NR]
4-chlorotoluene	mg/kg	1	Org-014	<1	103460-1	<1 || <1	[NR]	[NR]
1,3,5-trimethyl benzene	mg/kg	1	Org-014	<1	103460-1	<1 || <1	[NR]	[NR]
tert-butyl benzene	mg/kg	1	Org-014	<1	103460-1	<1 || <1	[NR]	[NR]
1,2,4-trimethyl benzene	mg/kg	1	Org-014	<1	103460-1	<1 || <1	[NR]	[NR]
1,3-dichlorobenzene	mg/kg	1	Org-014	<1	103460-1	<1 || <1	[NR]	[NR]
sec-butyl benzene	mg/kg	1	Org-014	<1	103460-1	<1 || <1	[NR]	[NR]
1,4-dichlorobenzene	mg/kg	1	Org-014	<1	103460-1	<1 || <1	[NR]	[NR]
4-isopropyl toluene	mg/kg	1	Org-014	<1	103460-1	<1 || <1	[NR]	[NR]
1,2-dichlorobenzene	mg/kg	1	Org-014	<1	103460-1	<1 || <1	[NR]	[NR]
n-butyl benzene	mg/kg	1	Org-014	<1	103460-1	<1 || <1	[NR]	[NR]
1,2-dibromo-3-chloropropane	mg/kg	1	Org-014	<1	103460-1	<1 || <1	[NR]	[NR]
1,2,4-trichlorobenzene	mg/kg	1	Org-014	<1	103460-1	<1 || <1	[NR]	[NR]
hexachlorobutadiene	mg/kg	1	Org-014	<1	103460-1	<1 || <1	[NR]	[NR]
1,2,3-trichlorobenzene	mg/kg	1	Org-014	<1	103460-1	<1 || <1	[NR]	[NR]
Surrogate Dibromofluorometha	%		Org-014	95	103460-1	88 || 87 || RPD: 1	LCS-2	111%
Surrogate aaa-Trifluorotoluene	%		Org-014	99	103460-1	95 || 97 || RPD: 2	LCS-2	97%
Surrogate Toluene-d_8	%		Org-014	96	103460-1	94 || 93 || RPD: 1	LCS-2	92%
Surrogate 4-Bromofluorobenzene	%		Org-014	109	103460-1	108 || 108 || RPD: 0	LCS-2	107%

QUALITY CONTROL vTRH(C6-C10)/BTEXN in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base || Duplicate || %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			15/01/2014	103460-1	15/01/2014 || 15/01/2014	LCS-2	15/01/2014
Date analysed	-			16/01/2014	103460-1	16/01/2014 || 16/01/2014	LCS-2	16/01/2014
TRHC$_6$ - C$_9$	mg/kg	25	Org-016	<25	103460-1	<25 || <25	LCS-2	100%
TRHC$_6$ - C$_{10}$	mg/kg	25	Org-016	<25	103460-1	<25 || <25	LCS-2	100%
Benzene	mg/kg	0.2	Org-016	<0.2	103460-1	<0.2 || <0.2	LCS-2	89%
Toluene	mg/kg	0.5	Org-016	<0.5	103460-1	<0.5 || <0.5	LCS-2	98%
Ethylbenzene	mg/kg	1	Org-016	<1	103460-1	<1 || <1	LCS-2	102%
m+p-xylene	mg/kg	2	Org-016	<2	103460-1	<2 || <2	LCS-2	106%
o-Xylene	mg/kg	1	Org-016	<1	103460-1	<1 || <1	LCS-2	107%
naphthalene	mg/kg	1	Org-014	<1	103460-1	<1 || <1	[NR]	[NR]
Surrogate aaa-Trifluorotoluene	%		Org-016	99	103460-1	95 || 97 || RPD: 2	LCS-2	101%

QUALITY CONTROL svTRH (C10-C40) in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base || Duplicate || %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			15/01/2014	[NT]	[NT]	LCS-2	15/01/2014
Date analysed	-			16/01/2014	[NT]	[NT]	LCS-2	16/01/2014
TRHC$_{10}$ - C$_{14}$	mg/kg	50	Org-003	<50	[NT]	[NT]	LCS-2	118%
TRHC$_{15}$ - C$_{28}$	mg/kg	100	Org-003	<100	[NT]	[NT]	LCS-2	109%
TRHC$_{29}$ - C$_{36}$	mg/kg	100	Org-003	<100	[NT]	[NT]	LCS-2	87%
TRH>C$_{10}$-C$_{16}$	mg/kg	50	Org-003	<50	[NT]	[NT]	LCS-2	118%
TRH>C$_{16}$-C$_{34}$	mg/kg	100	Org-003	<100	[NT]	[NT]	LCS-2	109%
TRH>C$_{34}$-C$_{40}$	mg/kg	100	Org-003	<100	[NT]	[NT]	LCS-2	87%
Surrogate o-Terphenyl	%		Org-003	88	[NT]	[NT]	LCS-2	100%

QUALITY CONTROL PAHs in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base || Duplicate || %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			15/01/2014	[NT]	[NT]	LCS-2	15/01/2014
Date analysed	-			16/01/2014	[NT]	[NT]	LCS-2	16/01/2014
Naphthalene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-2	109%
Acenaphthylene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Acenaphthene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Fluorene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-2	109%
Phenanthrene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-2	112%
Anthracene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Fluoranthene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-2	112%

QUALITY CONTROL PAHs in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base II Duplicate II %RPD	Spike Sm#	Spike % Recovery
Pyrene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-2	118%
Benzo(a)anthracene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Chrysene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-2	119%
Benzo(b+k)fluoranthene	mg/kg	0.2	Org-012 subset	<0.2	[NT]	[NT]	[NR]	[NR]
Benzo(a)pyrene	mg/kg	0.05	Org-012 subset	<0.05	[NT]	[NT]	LCS-2	135%
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Surrogate p-Terphenyl-d14	%		Org-012 subset	115	[NT]	[NT]	LCS-2	109%

QUALITY CONTROL Organochlorine Pesticides in soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base II Duplicate II %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			15/01/2014	[NT]	[NT]	LCS-2	15/01/2014
Date analysed	-			17/01/2014	[NT]	[NT]	LCS-2	17/01/2014
HCB	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
alpha-BHC	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-2	105%
gamma-BHC	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
beta-BHC	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-2	102%
Heptachlor	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-2	107%
delta-BHC	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
Aldrin	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-2	109%
Heptachlor Epoxide	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-2	108%
gamma-Chlordane	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
alpha-chlordane	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
Endosulfan I	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
pp-DDE	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-2	102%
Dieldrin	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-2	109%
Endrin	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-2	100%
pp-DDD	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-2	115%
Endosulfan II	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
pp-DDT	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
Endrin Aldehyde	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
Endosulfan Sulphate	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-2	108%
Methoxychlor	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
Surrogate TCMX	%		Org-005	91	[NT]	[NT]	LCS-2	91%

QUALITY CONTROL PCBs in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			15/01/2014	[NT]	[NT]	LCS-2	15/01/2014
Date analysed	-			17/01/2014	[NT]	[NT]	LCS-2	17/01/2014
Arochlor 1016	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1221	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1232	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1242	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1248	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1254	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	LCS-2	93%
Arochlor 1260	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Surrogate TCLMX	%		Org-006	91	[NT]	[NT]	LCS-2	87%

QUALITY CONTROL Acid Extractable metals in soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date digested	-			15/01/2014	[NT]	[NT]	LCS-6	15/01/2014
Date analysed	-			15/01/2014	[NT]	[NT]	LCS-6	15/01/2014
Arsenic	mg/kg	4	Metals-020 ICP-AES	<4	[NT]	[NT]	LCS-6	97%
Cadmium	mg/kg	0.4	Metals-020 ICP-AES	<0.4	[NT]	[NT]	LCS-6	107%
Chromium	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-6	104%
Copper	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-6	100%
Lead	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-6	101%
Mercury	mg/kg	0.1	Metals-021 CV-AAS	<0.1	[NT]	[NT]	LCS-6	80%
Nickel	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-6	103%
Zinc	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-6	106%

QUALITY CONTROL Moisture	UNITS	PQL	METHOD	Blank
Date prepared	-			[NT]
Date analysed	-			[NT]
Moisture	%	0.1	Inorg-008	<0.1

Report Comments:

Asbestos ID was analysed by Approved Identifier:	Not applicable for this job
Asbestos ID was authorised by Approved Signatory:	Not applicable for this job

INS: Insufficient sample for this test	PQL: Practical Quantitation Limit	NT: Not tested
NA: Test not required	RPD: Relative Percent Difference	NA: Test not required
<: Less than	>: Greater than	LCS: Laboratory Control Sample

Quality Control Definitions

Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

Duplicate: This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

Matrix Spike : A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

LCS (Laboratory Control Sample) : This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Surrogate Spike: Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.
Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.
Spikes for Physical and Aggregate Tests are not applicable.
For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.
Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for SVOC and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

12 Ashley Street
Chatswood
NSW 2067

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square Road North
SEND REPORT TO: N Cussen SEND INVOICE TO: Grace Ng
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: Chris B
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: n.cussen@jbsg.com.au
QC LEVEL: NEPM (2013)

| SAMPLE ID | MATRIX | DATE | TIME | TYPE & PRESERVATIVE | pH | COMBO SUITES: SOIL - 4 | SOIL – 4L | SOIL – 4A | SOIL - 5 | SOIL 5A | SOIL 5B | SOIL - 12 | WATER – 1m | WATER – 2L | WATER – 3L | VOC's | | |

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

SAMPLE RECEIPT ADVICE

Client:

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney NSW 2000

ph: 02 8245 0300
Fax: 02 8245 0399

Attention: Joanne Rosner, Nathan Cussen

Sample log in details:

Your reference:	**43182, Green Square**
Envirolab Reference:	**103452**
Date received:	14/01/14
Date results expected to be reported:	**21/01/14**

Samples received in appropriate condition for analysis:	YES
No. of samples provided	13 soils
Turnaround time requested:	Standard
Temperature on receipt (°C)	NA
Cooling Method:	None
Sampling Date Provided:	YES

Comments:

Samples will be held for 1 month for water samples and 2 months for soil samples from date of receipt of samples.

Contact details:

Please direct any queries to Aileen Hie or Jacinta Hurst
ph: 02 9910 6200 fax: 02 9910 6201
email: ahie@envirolabservices.com.au or jhurst@envirolabservices.com.au

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

CERTIFICATE OF ANALYSIS 103452

Client:
JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention: Joanne Rosner, Nathan Cussen

Sample log in details:

Your Reference:	**43182, Green Square**		
No. of samples:	13 soils		
Date samples received / completed instructions received	14/01/14	/	14/01/14

Analysis Details:
Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by: / Issue Date:	21/01/14	/	20/01/14
Date of Preliminary Report:	Not Issued		

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Accredited for compliance with ISO/IEC 17025. **Tests not covered by NATA are denoted with *.**

Results Approved By:

Jacinta Hurst
Laboratory Manager

Asbestos ID - soils WA						
Our Reference:	UNITS	103452-1	103452-5	103452-9	103452-11	103452-13
Your Reference	----------	FC062	FC062	FC063	FC063	QC05
Depth	----------	0.1-0.2	3.8-4.0	1.6-1.8	3.8-4.0	-
Date Sampled		09/01/2014	09/01/2014	09/01/2014	09/01/2014	09/01/2014
Type of sample		soil	soil	soil	soil	soil
Date analysed	-	17/01/2014	17/01/2014	17/01/2014	17/01/2014	17/01/2014
Sample mass tested	g	849.54g	724.13g	750.84g	711.96g	692.28g
Sample Description	-	Brown fine-grained soil	Beige fine-grained sandy soil	Grey coarse-grained & rocks	Grey coarse-grained soil	Brown coarse-grained & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected

Method ID	Methodology Summary
ASB-003	Asbestos ID - Minimum 500mL soil sample was analysed as recommended by "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.1g/kg as per AS4964-2004.

Report Comments:

This report is consistent with the analytical procedures and reporting recommendations in the Western Australian Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009.

Sample 103452-13; Loose fibre bundles of chrysotile asbestos identified within the sample (total weight 0.0014g). This is 100% asbestos fibres by weight, which in 692.28g of soil is 0.00g/kg (i.e. < reporting limit for the method of 0.1g/kg).

Asbestos ID was analysed by Approved Identifier: Matt Mansfield
Asbestos ID was authorised by Approved Signatory: Paul Ching

INS: Insufficient sample for this test
NA: Test not required
<: Less than
PQL: Practical Quantitation Limit
RPD: Relative Percent Difference
>: Greater than
NT: Not tested
NA: Test not required
LCS: Laboratory Control Sample

Quality Control Definitions

Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

Duplicate: This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

Matrix Spike : A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

LCS (Laboratory Control Sample) : This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Surrogate Spike: Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.
Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.
Spikes for Physical and Aggregate Tests are not applicable.
For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.
Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for SVOC and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

12 Ashley Street
Chatswood
NSW 2067

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square Road North
SEND REPORT TO: N Wasson SEND INVOICE TO: Gr Nig
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: Chris B
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: nwasson@jbsg.com.au
QC LEVEL: NEPM (2013)

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	COMBO SUITES: SOIL - 4	SOIL - 4L	SOIL - 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER - 1m	WATER - 2L	WATER - 3L	Asbestos (Soil)	NOTES:
1	FC062 0.1 - 0.2	Soil	9/1/14		Bag												X	
2	FC062 0.5 - 0.7																	
3	FC062 1.5 - 1.7																X	
4	FC062 2.8 - 3.0																	
5	FC062 3.8 - 4.0																	
6	FC062 4.5 - 4.7																	
7	FC063 0.1 - 0.2																	
8	FC063 0.7 - 0.9																	
9	FC063 1.6 - 1.8																	
10	FC063 2.8 - 3.0																X	
11	FC063 3.8 - 4.0																	
12	FC063 4.8 - 5.0																	
13	QC05																X	
14	QC05-A																	

Please Send To P4R

ENVIROLAB
Envirolab Services
12 Ashley St
Chatswood NSW 2067
PH: (02) 9910 6200
Job No: 103452
Date Received: 14/1/14
Time Received: 9:00
Received by:
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Nath DATE: 10/1/14	CONSIGNMENT NOTE NO.	NAME: Kevin Wang	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 14/1/14 9:00	
NAME: DATE:	CONSIGNMENT NOTE NO.	OF: Envi	COOLER TEMP ..... deg C
OF:	TRANSPORT CO	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
		OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Envirolab

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

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ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

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NATA # 1261
Site # 1254 & 14271

Sydney
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Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Sample Receipt Advice

Company name:	**JBS & G (NSW & WA) Pty Ltd**
Contact name:	Nathan Cussen
Client job number:	ADDITIONAL: GREEN SQUARE BLOCK 19B 43182
COC number:	Not provided
Turn around time:	5 Day
Date/Time received:	Jan 20, 2014 6:10 PM
Eurofins | mgt reference:	**406077**

Sample information

☑ A detailed list of analytes logged into our LIMS, is included in the attached summary table.

☑ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt Sample Receipt : 7 degrees Celsius.

☑ All samples have been received as described on the above COC.

☑ COC has been completed correctly.

☑ Attempt to chill was evident.

☑ Appropriately preserved sample containers have been used.

☑ All samples were received in good condition.

☑ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.

☑ Organic samples had Teflon liners.

☒ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Notes

Additional from 405477

Contact notes

If you have any questions with respect to these samples please contact:

Jean Heng on Phone : (+61) (2) 9900 8400 or by e.mail: JeanHeng@eurofins.com.au

Results will be delivered electronically via e.mail to Nathan Cussen - ncussen@jbsg.com.au.

Eurofins | mgt Sample Receipt

eurofins | mgt

ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

Melbourne
3-5 Kingston Town Close
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NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: ADDITIONAL: GREEN SQUARE BLOCK 19B 43182

Order No.:
Report #: 406077
Phone: 02 8245 0300
Fax:

Received: Jan 20, 2014 6:10 PM
Due: Jan 29, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Lead	Nickel	Toxicity Characteristic Leaching Procedure (TCLP)
Laboratory where analysis is conducted								
Melbourne Laboratory - NATA Site # 1254 & 14271								
Sydney Laboratory - NATA Site # 18217					X	X	X	X
Brisbane Laboratory - NATA Site # 20794								
External Laboratory								
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**				
FC083 2.0-2.2	Jan 08, 2014		TCLP	S14-Ja08624	X	X		X
FC083 0.5-0.7	Jan 08, 2014		TCLP	S14-Ja08625	X		X	X

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Certificate of Analysis

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Nathan Cussen**

Report **406077-L**
Client Reference ADDITIONAL: GREEN SQUARE BLOCK 19B 43182
Received Date Jan 20, 2014

Client Sample ID **Sample Matrix** **Eurofins | mgt Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**FC083 2.0-2.2** **TCLP** **S14-Ja08624** **Jan 08, 2014**	**FC083 0.5-0.7** **TCLP** **S14-Ja08625** **Jan 08, 2014**
Heavy Metals				
Lead	0.01	mg/L	0.35	-
Nickel	0.05	mg/L	-	0.07
% Moisture	0.1	%	44	9.5
Toxicity Characteristic Leaching Procedure (TCLP)				
Leachate Fluid[C01]		comment	1.0	1.0
pH (TCLP - HCl addition)	0.1	units	1.9	1.5
pH (TCLP - initial)	0.1	units	6.6	9.1
pH (TCLP - off)	0.1	units	5.2	5.6

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Heavy Metals	Sydney	Jan 22, 2014	180 Day
- Method: E022 Acid Extractable metals in Soils			
% Moisture	Sydney	Jan 22, 2014	0 Day
- Method: E005 Moisture Content			
Toxicity Characteristic Leaching Procedure (TCLP)	Sydney	Jan 22, 2014	0 Day
- Method: E019 TCLP Preparation			

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NATA # 1261 Site # 18217

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1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: ADDITIONAL: GREEN SQUARE BLOCK 19B 43182

Order No.:
Report #: 406077
Phone: 02 8245 0300
Fax:

Received: Jan 20, 2014 6:10 PM
Due: Jan 29, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Lead	Nickel	Toxicity Characteristic Leaching Procedure (TCLP)
Laboratory where analysis is conducted								
Melbourne Laboratory - NATA Site # 1254 & 14271								
Sydney Laboratory - NATA Site # 18217					X	X	X	X
Brisbane Laboratory - NATA Site # 20794								
External Laboratory								
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**				
FC083 2.0-2.2	Jan 08, 2014		TCLP	S14-Ja08624	X	X		X
FC083 0.5-0.7	Jan 08, 2014		TCLP	S14-Ja08625	X		X	X

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Lead	S14-Ja04561	NCP	mg/L	0.13	0.13	2.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Nickel	S14-Ja04561	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
C01	Leachate Fluid Key: 1 - pH 5.0, 2 - pH 2.9, 3 - pH 9.2, 4 - Reagent (DI) water, 5 - Client sample, 6 - other

Authorised By

Jean Heng	Client Services
James Norford	Senior Analyst-Metal (NSW)

Dr. Bob Symons
Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

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From: Nathan Cussen [mailto:NCussen@jbsg.com.au]
Sent: Monday, 20 January 2014 6:11 PM
To: Jean Heng
Subject: Lab Batch 405477 - Green Square Block 19B 43182

Hi Jean,

Can I please schedule the following TCLP's:

- FC083 2.0-2.2 for lead; and
- FC083 0.5-0.7 for Nickel.

Cheers,
Nathan

Nathan Cussen | Senior Environmental Consultant| JBS&G
Sydney | Melbourne | Adelaide | Perth | Brisbane
Level 1, 50 Margaret Street, Sydney NSW 2000
T: 02 8245 0300 | M: 0431 401 022| www.jbsg.com.au
JBS&G #406077
Contaminated Land | Groundwater Remediation | Auditing and Compliance | Assessments and Approvals | Occupational Hygiene and Monitoring

If you would like to send through large electronic files (>25MB), please use JBS&G's secure internet-based file delivery system located at http://dropbox.yousendit.com/JBSG. Place 'Nathan Cussen - Sydney in the subject.
This email message is intended only for the addressee(s) and contains information that may be confidential and/or copyright. If you are not the intended recipient please delete this email immediately. Use, disclosure or reproduction of this email by anyone other than the intended recipient(s) is strictly prohibited. No representation is made that this email or any attachments are free of viruses and the recipient is responsible for undertaking appropriate virus scanning. Any advice provided in or attached to this email is subject to limitations.

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NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Sample Receipt Advice

Company name: **JBS & G (NSW & WA) Pty Ltd**

Contact name: Nathan Cussen
Client job number: GREEN SQUARE BLOCK 19B
COC number: Not provided
Turn around time: 5 Day
Date/Time received: Jan 16, 2014 8:56 AM
Eurofins | mgt reference: **405758**

Sample information

☑ A detailed list of analytes logged into our LIMS, is included in the attached summary table.

☑ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt Sample Receipt : 11 degrees Celsius.

☑ All samples have been received as described on the above COC.

☑ COC has been completed correctly.

☑ Attempt to chill was evident.

☑ Appropriately preserved sample containers have been used.

☑ All samples were received in good condition.

☑ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.

☑ Organic samples had Teflon liners.

☒ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Contact notes

If you have any questions with respect to these samples please contact:

Jean Heng on Phone : (+61) (2) 9900 8400 or by e.mail: JeanHeng@eurofins.com.au

Results will be delivered electronically via e.mail to Nathan Cussen - ncussen@jbsg.com.au.

Eurofins | mgt Sample Receipt

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ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

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NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: GREEN SQUARE BLOCK 19B

Order No.:
Report #: 405758
Phone: 02 8245 0300
Fax:

Received: Jan 16, 2014 8:56 AM
Due: Jan 23, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	Total Recoverable Hydrocarbons	JBS&G Suite 2
Laboratory where analysis is conducted										
Melbourne Laboratory - NATA Site # 1254 & 14271										
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794										
External Laboratory										
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**						
FC086 0.9-1.1	Jan 13, 2014		Soil	S14-Ja06222	X					X
FC086 1.8-2.0	Jan 13, 2014		Soil	S14-Ja06223	X		X	X	X	
FC086 2.8-3.0	Jan 13, 2014		Soil	S14-Ja06224		X				

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Certificate of Analysis

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Nathan Cussen**

Report **405758-S**
Client Reference GREEN SQUARE BLOCK 19B
Received Date Jan 16, 2014

Client Sample ID **Sample Matrix** **Eurofins | mgt Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**FC086 0.9-1.1** **Soil** **S14-Ja06222** **Jan 13, 2014**	**FC086 1.8-2.0** **Soil** **S14-Ja06223** **Jan 13, 2014**
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				
TRH C6-C9	20	mg/kg	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50
TRH C10-36 (Total)	50	mg/kg	< 50	< 50
BTEX				
Benzene	0.1	mg/kg	< 0.1	-
Toluene	0.1	mg/kg	< 0.1	-
Ethylbenzene	0.1	mg/kg	< 0.1	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-
o-Xylene	0.1	mg/kg	< 0.1	-
Xylenes - Total	0.3	mg/kg	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	126	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	0.6	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC086 0.9-1.1 Soil S14-Ja06222 Jan 13, 2014	FC086 1.8-2.0 Soil S14-Ja06223 Jan 13, 2014
Polycyclic Aromatic Hydrocarbons				
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5
Pyrene	0.5	mg/kg	0.7	< 0.5
Total PAH	0.5	mg/kg	1.3	< 0.5
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	0.6	0.6
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	1.2	1.2
2-Fluorobiphenyl (surr.)	1	%	83	93
p-Terphenyl-d14 (surr.)	1	%	93	103
Organochlorine Pesticides				
Chlordanes - Total	0.1	mg/kg	< 0.1	-
4.4'-DDD	0.05	mg/kg	< 0.05	-
4.4'-DDE	0.05	mg/kg	< 0.05	-
4.4'-DDT	0.05	mg/kg	< 0.05	-
a-BHC	0.05	mg/kg	< 0.05	-
Aldrin	0.05	mg/kg	< 0.05	-
b-BHC	0.05	mg/kg	< 0.05	-
d-BHC	0.05	mg/kg	< 0.05	-
Dieldrin	0.05	mg/kg	< 0.05	-
Endosulfan I	0.05	mg/kg	< 0.05	-
Endosulfan II	0.05	mg/kg	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-
Endrin	0.05	mg/kg	< 0.05	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-
Endrin ketone	0.05	mg/kg	< 0.05	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-
Heptachlor	0.05	mg/kg	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-
Methoxychlor	0.2	mg/kg	< 0.2	-
Toxaphene	1	mg/kg	< 1	-
Dibutylchlorendate (surr.)	1	%	102	-
Tetrachloro-m-xylene (surr.)	1	%	78	-
Polychlorinated Biphenyls (PCB)				
Aroclor-1016	0.5	mg/kg	< 0.5	-
Aroclor-1232	0.5	mg/kg	< 0.5	-
Aroclor-1242	0.5	mg/kg	< 0.5	-
Aroclor-1248	0.5	mg/kg	< 0.5	-
Aroclor-1254	0.5	mg/kg	< 0.5	-
Aroclor-1260	0.5	mg/kg	< 0.5	-
Total PCB	0.5	mg/kg	< 0.5	-
Dibutylchlorendate (surr.)	1	%	102	-
Heavy Metals				
Arsenic	2	mg/kg	< 2	2.4
Cadmium	0.4	mg/kg	0.5	< 0.4
Chromium	5	mg/kg	23	8.9
Copper	5	mg/kg	51	11
Lead	5	mg/kg	91	33
Mercury	0.05	mg/kg	0.20	0.09
Nickel	5	mg/kg	32	< 5
Zinc	5	mg/kg	90	37

Client Sample ID			FC086 0.9-1.1	FC086 1.8-2.0
Sample Matrix			**Soil**	**Soil**
Eurofins | mgt Sample No.			**S14-Ja06222**	**S14-Ja06223**
Date Sampled			**Jan 13, 2014**	**Jan 13, 2014**
Test/Reference	LOR	Unit		
% Moisture	0.1	%	9.2	11

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Jan 17, 2014	14 Day
- Method: E004 Petroleum Hydrocarbons (TPH)			
BTEX	Sydney	Jan 17, 2014	14 Day
- Method: E029/E016 BTEX			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jan 17, 2014	14 Day
- Method: LM-LTM-ORG2010			
Polycyclic Aromatic Hydrocarbons	Sydney	Jan 17, 2014	14 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Organochlorine Pesticides	Sydney	Jan 17, 2014	14 Day
- Method: E013 Organochlorine Pesticides (OC)			
Polychlorinated Biphenyls (PCB)	Sydney	Jan 17, 2014	28 Day
- Method: E013 Polychlorinated Biphenyls (PCB)			
Metals M8	Sydney	Jan 17, 2014	28 Day
- Method: E022 Acid Extractable metals in Soils & E026 Mercury			
% Moisture	Sydney	Jan 17, 2014	28 Day
- Method: E005 Moisture Content			

eurofins | mgt

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NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: GREEN SQUARE BLOCK 19B

Order No.:
Report #: 405758
Phone: 02 8245 0300
Fax:

Received: Jan 16, 2014 8:56 AM
Due: Jan 23, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	Total Recoverable Hydrocarbons	JBS&G Suite 2
Laboratory where analysis is conducted										
Melbourne Laboratory - NATA Site # 1254 & 14271										
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794										
External Laboratory										
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**						
FC086 0.9-1.1	Jan 13, 2014		Soil	S14-Ja06222	X					X
FC086 1.8-2.0	Jan 13, 2014		Soil	S14-Ja06223	X		X	X	X	
FC086 2.8-3.0	Jan 13, 2014		Soil	S14-Ja06224		X				

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH C6-C10 less BTEX (F1)	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-BHC	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-BHC	mg/kg	< 0.05			0.05	Pass	
d-BHC	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-BHC (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.2			0.2	Pass	
Toxaphene	mg/kg	< 1			1	Pass	
Method Blank							
Polychlorinated Biphenyls (PCB)							
Aroclor-1016	mg/kg	< 0.5			0.5	Pass	
Aroclor-1232	mg/kg	< 0.5			0.5	Pass	
Aroclor-1242	mg/kg	< 0.5			0.5	Pass	
Aroclor-1248	mg/kg	< 0.5			0.5	Pass	
Aroclor-1254	mg/kg	< 0.5			0.5	Pass	
Aroclor-1260	mg/kg	< 0.5			0.5	Pass	
Total PCB	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.05			0.05	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	108			70-130	Pass	
TRH C10-C14	%	79			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	115			70-130	Pass	
Toluene	%	108			70-130	Pass	
Ethylbenzene	%	107			70-130	Pass	
m&p-Xylenes	%	107			70-130	Pass	
o-Xylene	%	112			70-130	Pass	
Xylenes - Total	%	109			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	74			70-130	Pass	
TRH C6-C10	%	109			70-130	Pass	
TRH >C10-C16	%	85			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	107			70-130	Pass	
Acenaphthylene	%	103			70-130	Pass	
Anthracene	%	102			70-130	Pass	
Benz(a)anthracene	%	96			70-130	Pass	
Benzo(a)pyrene	%	101			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Benzo(b&j)fluoranthene	%	96			70-130	Pass	
Benzo(g.h.i)perylene	%	101			70-130	Pass	
Benzo(k)fluoranthene	%	105			70-130	Pass	
Chrysene	%	109			70-130	Pass	
Dibenz(a.h)anthracene	%	103			70-130	Pass	
Fluoranthene	%	98			70-130	Pass	
Fluorene	%	105			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	101			70-130	Pass	
Naphthalene	%	107			70-130	Pass	
Phenanthrene	%	98			70-130	Pass	
Pyrene	%	95			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	125			70-130	Pass	
4.4'-DDD	%	127			70-130	Pass	
4.4'-DDE	%	121			70-130	Pass	
4.4'-DDT	%	129			70-130	Pass	
a-BHC	%	123			70-130	Pass	
Aldrin	%	124			70-130	Pass	
b-BHC	%	128			70-130	Pass	
d-BHC	%	122			70-130	Pass	
Dieldrin	%	124			70-130	Pass	
Endosulfan I	%	125			70-130	Pass	
Endosulfan II	%	128			70-130	Pass	
Endosulfan sulphate	%	129			70-130	Pass	
Endrin	%	126			70-130	Pass	
Endrin aldehyde	%	125			70-130	Pass	
Endrin ketone	%	130			70-130	Pass	
g-BHC (Lindane)	%	125			70-130	Pass	
Heptachlor	%	120			70-130	Pass	
Heptachlor epoxide	%	125			70-130	Pass	
Hexachlorobenzene	%	101			70-130	Pass	
Methoxychlor	%	126			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls (PCB)							
Aroclor-1260	%	106			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	88			70-130	Pass	
Cadmium	%	93			70-130	Pass	
Chromium	%	96			70-130	Pass	
Copper	%	107			70-130	Pass	
Lead	%	97			70-130	Pass	
Mercury	%	102			70-130	Pass	
Nickel	%	99			70-130	Pass	
Zinc	%	105			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S14-Ja05820	NCP	%	88			70-130	Pass	
TRH C10-C14	S14-Ja06185	NCP	%	79			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S14-Ja05820	NCP	%	107			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Toluene	S14-Ja05820	NCP	%	100			70-130	Pass	
Ethylbenzene	S14-Ja05820	NCP	%	98			70-130	Pass	
m&p-Xylenes	S14-Ja05820	NCP	%	99			70-130	Pass	
o-Xylene	S14-Ja05820	NCP	%	105			70-130	Pass	
Xylenes - Total	S14-Ja05820	NCP	%	101			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S14-Ja05820	NCP	%	73			70-130	Pass	
TRH C6-C10	S14-Ja05820	NCP	%	91			70-130	Pass	
TRH >C10-C16	S14-Ja06185	NCP	%	86			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S14-Ja04331	NCP	%	111			70-130	Pass	
Acenaphthylene	S14-Ja04331	NCP	%	108			70-130	Pass	
Anthracene	S14-Ja04331	NCP	%	104			70-130	Pass	
Benz(a)anthracene	S14-Ja04331	NCP	%	102			70-130	Pass	
Benzo(a)pyrene	S14-Ja04331	NCP	%	109			70-130	Pass	
Benzo(b&j)fluoranthene	S14-Ja04331	NCP	%	103			70-130	Pass	
Benzo(g.h.i)perylene	S14-Ja04331	NCP	%	87			70-130	Pass	
Benzo(k)fluoranthene	S14-Ja04331	NCP	%	109			70-130	Pass	
Chrysene	S14-Ja04331	NCP	%	109			70-130	Pass	
Dibenz(a.h)anthracene	S14-Ja04331	NCP	%	95			70-130	Pass	
Fluoranthene	S14-Ja04331	NCP	%	100			70-130	Pass	
Fluorene	S14-Ja04331	NCP	%	109			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja04331	NCP	%	90			70-130	Pass	
Naphthalene	S14-Ja04331	NCP	%	109			70-130	Pass	
Phenanthrene	S14-Ja04331	NCP	%	100			70-130	Pass	
Pyrene	S14-Ja04331	NCP	%	97			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S14-Ja06185	NCP	%	80			70-130	Pass	
Cadmium	S14-Ja06185	NCP	%	102			70-130	Pass	
Chromium	S14-Ja06185	NCP	%	103			70-130	Pass	
Copper	S14-Ja06185	NCP	%	78			70-130	Pass	
Lead	S14-Ja06185	NCP	%	97			70-130	Pass	
Mercury	S14-Ja06056	NCP	%	99			70-130	Pass	
Nickel	S14-Ja06185	NCP	%	98			70-130	Pass	
Zinc	S14-Ja06185	NCP	%	103			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S14-Ja05820	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S14-Ja06185	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S14-Ja06185	NCP	mg/kg	75	98	26	30%	Pass	
TRH C29-C36	S14-Ja06185	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S14-Ja05820	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S14-Ja05820	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S14-Ja05820	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S14-Ja05820	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S14-Ja05820	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total	S14-Ja05820	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	

Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S14-Ja05820	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S14-Ja05820	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S14-Ja05820	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S14-Ja06185	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S14-Ja06185	NCP	mg/kg	< 100	120	32	30%	Fail	Q15
TRH >C34-C40	S14-Ja06185	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S14-Ja05820	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S14-Ja05820	NCP	mg/kg	1.1	1.0	9.0	30%	Pass	
Anthracene	S14-Ja05820	NCP	mg/kg	2.0	1.9	3.0	30%	Pass	
Benz(a)anthracene	S14-Ja05820	NCP	mg/kg	6.5	7.4	13	30%	Pass	
Benzo(a)pyrene	S14-Ja05820	NCP	mg/kg	11	11	7.0	30%	Pass	
Benzo(b&j)fluoranthene	S14-Ja05820	NCP	mg/kg	11	10	8.0	30%	Pass	
Benzo(g.h.i)perylene	S14-Ja05820	NCP	mg/kg	7.0	7.4	6.0	30%	Pass	
Benzo(k)fluoranthene	S14-Ja05820	NCP	mg/kg	5.1	5.3	3.0	30%	Pass	
Chrysene	S14-Ja05820	NCP	mg/kg	6.6	7.4	12	30%	Pass	
Dibenz(a.h)anthracene	S14-Ja05820	NCP	mg/kg	1.5	1.6	4.0	30%	Pass	
Fluoranthene	S14-Ja05820	NCP	mg/kg	11	12	9.0	30%	Pass	
Fluorene	S14-Ja05820	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja05820	NCP	mg/kg	5.3	5.6	5.0	30%	Pass	
Naphthalene	S14-Ja05820	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S14-Ja05820	NCP	mg/kg	4.3	3.9	10	30%	Pass	
Pyrene	S14-Ja05820	NCP	mg/kg	10	12	13	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S14-Ja05804	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S14-Ja05804	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S14-Ja05804	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S14-Ja05804	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	S14-Ja05804	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S14-Ja05804	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	S14-Ja05804	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-BHC	S14-Ja05804	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S14-Ja05804	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S14-Ja05804	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S14-Ja05804	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S14-Ja05804	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S14-Ja05804	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S14-Ja05804	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S14-Ja05804	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	S14-Ja05804	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S14-Ja05804	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S14-Ja05804	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S14-Ja05804	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S14-Ja05804	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Toxaphene	S14-Ja05804	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls (PCB)				Result 1	Result 2	RPD			
Aroclor-1016	S14-Ja05804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1232	S14-Ja05804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1242	S14-Ja05804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1248	S14-Ja05804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1254	S14-Ja05804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1260	S14-Ja05804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S14-Ja06108	NCP	mg/kg	18	20	9.0	30%	Pass	
Cadmium	S14-Ja06108	NCP	mg/kg	2.7	2.7	1.0	30%	Pass	
Chromium	S14-Ja06108	NCP	mg/kg	7.7	7.9	2.0	30%	Pass	
Copper	S14-Ja06108	NCP	mg/kg	10	9.1	12	30%	Pass	
Lead	S14-Ja06108	NCP	mg/kg	150	130	13	30%	Pass	
Mercury	S14-Ja06056	NCP	mg/kg	0.23	0.22	1.0	30%	Pass	
Nickel	S14-Ja06108	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
Zinc	S14-Ja06108	NCP	mg/kg	250	250	2.0	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q15	The RPD reported passes Eurofins | mgt's Acceptance Criteria as stipulated in SOP 05. Refer to Glossary Page of this report for further details

Authorised By

Jean Heng	Client Services
James Norford	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)
Ryan Hamilton	Senior Analyst-Volatile (NSW)

Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

Eurofins | mgt shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins | mgt be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

eurofins | mgt
Unit F3-F6 Building F, Parkview Building
16 Mars Road, Lane Cove West
NSW 2066

page 1 of 1

*405758

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 43192
PROJECT NAME: Green Square Block 913
SEND REPORT TO: N Cussen SEND INVOICE TO: C Ng
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: Chris
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: ncussen@jbsg.com.a
QC LEVEL: NEPM (2013)

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	JB1	JB1T	JB1A	JB2	JB2A	B10	JB2/JBL	JB3/JBL	JB4	JBL	8 Metals	TRH	PAH	NOTES:
FC086 0.9-1.1	Soil	13.1.14		Jar + Ice					X										
FC086 1.9-2.0	↓	↓		↓												X	X	X	
FC086 2.9-3.0	↓	↓		↓															

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: N Cussen DATE: 16.1.14 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C
NAME: DATE: OF:	CONSIGNMENT NOTE NO. TRANSPORT CO	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - eurofins mgt

JB1 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1T - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos
JB2 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
B10 - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2/JBL - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)
JB3/JBL - TRH/BTEX/PAH/OCP/OPP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)/Asbestos
JB4 - TRH/BTEX/VOC
JBL - TCLP(PAH & 6 Metals)

RECEIVED
16 JAN 2014
BY: Sean 8:56

-----Original Message-----
From: Nathan Cussen [mailto:NCussen@jbsg.com.au]
Sent: Thursday, 16 January 2014 8:56 AM
To: Jean Heng
Subject: 43182 COC documentation

Hi Jean,

Please find attached two COC's which did not make it with the last lab batches.

Also, the guys on site inform me that samples FC010 5.8-6.0 and FC034 0.8-1.0 broke. So you can you please cross them off the relevant COC's if not received.

I have also been informed by the guys on site that samples starting withF004..... are still with the guys onsite. I will get them send to you with the next lab batch.

Just a heads up that you can expect another large lab batch today.

Sorry for the confusion,
Nathan

-----Original Message-----
From: scanners@jbsgroup.com.au [mailto:scanners@jbsgroup.com.au]
Sent: Thursday, 16 January 2014 8:31 AM
To: Nathan Cussen
Subject:

TASKalfa 3500i
[00:c0:ee:89:11:4e]

eurofins | mgt

ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

Melbourne
3-5 Kingston Town Close
Oakleigh Vic 3166
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F6, Building F
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Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Sample Receipt Advice

Company name: **JBS & G (NSW & WA) Pty Ltd**

Contact name: Nathan Cussen
Client job number: GREEN SQUARE BLOCK 19B 43182
COC number: Not provided
Turn around time: 5 Day
Date/Time received: Jan 13, 2014 5:00 PM
Eurofins | mgt reference: **405477**

Sample information

☑ A detailed list of analytes logged into our LIMS, is included in the attached summary table.

☑ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt Sample Receipt : 7 degrees Celsius.

☑ All samples have been received as described on the above COC.

☑ COC has been completed correctly.

☑ Attempt to chill was evident.

☑ Appropriately preserved sample containers have been used.

☑ All samples were received in good condition.

☑ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.

☑ Organic samples had Teflon liners.

☒ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Contact notes

If you have any questions with respect to these samples please contact:

Jean Heng on Phone : (+61) (2) 9900 8400 or by e.mail: JeanHeng@eurofins.com.au

Results will be delivered electronically via e.mail to Nathan Cussen - ncussen@jbsg.com.au.

Eurofins | mgt Sample Receipt

eurofins | mgt

ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

Melbourne
3-5 Kingston Town Close
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NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: GREEN SQUARE BLOCK 19B 43182

Order No.:
Report #: 405477
Phone: 02 8245 0300
Fax:

Received: Jan 13, 2014 5:00 PM
Due: Jan 21, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Total Recoverable Hydrocarbons	JBS&G Suite 2
Laboratory where analysis is conducted											
Melbourne Laboratory - NATA Site # 1254 & 14271											
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794											
External Laboratory											
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**							
FC083 0.2-0.3	Jan 08, 2014		Soil	S14-Ja03733		X					
FC083 0.5-0.7	Jan 08, 2014		Soil	S14-Ja03734	X		X	X	X	X	
FC083 1.5-1.7	Jan 08, 2014		Soil	S14-Ja03735		X					
FC083 2.0-2.2	Jan 08, 2014		Soil	S14-Ja03736	X						X

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Certificate of Analysis

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Nathan Cussen**

Report **405477-S**
Client Reference GREEN SQUARE BLOCK 19B 43182
Received Date Jan 13, 2014

Client Sample ID **Sample Matrix** **Eurofins | mgt Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**FC083 0.5-0.7** **Soil** **S14-Ja03734** **Jan 08, 2014**	**FC083 2.0-2.2** **Soil** **S14-Ja03736** **Jan 08, 2014**
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				
TRH C6-C9	20	mg/kg	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	600
TRH C15-C28	50	mg/kg	< 50	2100
TRH C29-C36	50	mg/kg	< 50	410
TRH C10-36 (Total)	50	mg/kg	< 50	3100
BTEX				
Benzene	0.1	mg/kg	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1
Xylenes - Total	0.3	mg/kg	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	116	113
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	1500
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	1500
TRH >C16-C34	100	mg/kg	< 100	1600
TRH >C34-C40	100	mg/kg	< 100	160
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	0.8	1.0
Fluorene	0.5	mg/kg	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	1.0

Client Sample ID			FC083 0.5-0.7	FC083 2.0-2.2
Sample Matrix			Soil	Soil
Eurofins | mgt Sample No.			S14-Ja03734	S14-Ja03736
Date Sampled			Jan 08, 2014	Jan 08, 2014
Test/Reference	LOR	Unit		
Polycyclic Aromatic Hydrocarbons				
Phenanthrene	0.5	mg/kg	0.7	1.3
Pyrene	0.5	mg/kg	0.7	0.9
Total PAH	0.5	mg/kg	2.2	4.2
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	0.6	0.6
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	1.2	1.2
2-Fluorobiphenyl (surr.)	1	%	80	85
p-Terphenyl-d14 (surr.)	1	%	92	109
Organochlorine Pesticides				
Chlordanes - Total	0.1	mg/kg	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	< 0.05
a-BHC	0.05	mg/kg	-	< 0.05
Aldrin	0.05	mg/kg	-	< 0.05
b-BHC	0.05	mg/kg	-	< 0.05
d-BHC	0.05	mg/kg	-	< 0.05
Dieldrin	0.05	mg/kg	-	< 0.05
Endosulfan I	0.05	mg/kg	-	< 0.05
Endosulfan II	0.05	mg/kg	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	< 0.05
Endrin	0.05	mg/kg	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	< 0.05
Endrin ketone	0.05	mg/kg	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	< 0.05
Heptachlor	0.05	mg/kg	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	< 0.05
Methoxychlor	0.2	mg/kg	-	< 0.2
Toxaphene	1	mg/kg	-	< 1
Dibutylchlorendate (surr.)	1	%	-	118
Tetrachloro-m-xylene (surr.)	1	%	-	73
Polychlorinated Biphenyls (PCB)				
Aroclor-1016	0.5	mg/kg	-	< 0.5
Aroclor-1232	0.5	mg/kg	-	< 0.5
Aroclor-1242	0.5	mg/kg	-	< 0.5
Aroclor-1248	0.5	mg/kg	-	< 0.5
Aroclor-1254	0.5	mg/kg	-	< 0.5
Aroclor-1260	0.5	mg/kg	-	< 0.5
Total PCB	0.5	mg/kg	-	< 0.5
Dibutylchlorendate (surr.)	1	%	-	118
Heavy Metals				
Arsenic	2	mg/kg	2.9	20
Cadmium	0.4	mg/kg	0.5	3.3
Chromium	5	mg/kg	35	19
Copper	5	mg/kg	69	620
Lead	5	mg/kg	43	1400
Mercury	0.05	mg/kg	0.06	0.50
Nickel	5	mg/kg	62	21
Zinc	5	mg/kg	130	1300

Client Sample ID			FC083 0.5-0.7	FC083 2.0-2.2
Sample Matrix			**Soil**	**Soil**
Eurofins | mgt Sample No.			**S14-Ja03734**	**S14-Ja03736**
Date Sampled			**Jan 08, 2014**	**Jan 08, 2014**
Test/Reference	LOR	Unit		
% Moisture	0.1	%	6.4	40

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Jan 15, 2014	14 Day
- Method: E004 Petroleum Hydrocarbons (TPH)			
BTEX	Sydney	Jan 14, 2014	14 Day
- Method: E029/E016 BTEX			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jan 15, 2014	14 Day
- Method: LM-LTM-ORG2010			
Polycyclic Aromatic Hydrocarbons	Sydney	Jan 15, 2014	14 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Organochlorine Pesticides	Sydney	Jan 15, 2014	14 Day
- Method: E013 Organochlorine Pesticides (OC)			
Polychlorinated Biphenyls (PCB)	Sydney	Jan 15, 2014	28 Day
- Method: E013 Polychlorinated Biphenyls (PCB)			
Metals M8	Sydney	Jan 14, 2014	28 Day
- Method: E022 Acid Extractable metals in Soils & E026 Mercury			
% Moisture	Sydney	Jan 14, 2014	28 Day
- Method: E005 Moisture Content			

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NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: GREEN SQUARE BLOCK 19B 43182

Order No.:
Report #: 405477
Phone: 02 8245 0300
Fax:

Received: Jan 13, 2014 5:00 PM
Due: Jan 21, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Total Recoverable Hydrocarbons	JBS&G Suite 2
Laboratory where analysis is conducted											
Melbourne Laboratory - NATA Site # 1254 & 14271											
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794											
External Laboratory											
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**							
FC083 0.2-0.3	Jan 08, 2014		Soil	S14-Ja03733		X					
FC083 0.5-0.7	Jan 08, 2014		Soil	S14-Ja03734	X		X	X	X	X	
FC083 1.5-1.7	Jan 08, 2014		Soil	S14-Ja03735		X					
FC083 2.0-2.2	Jan 08, 2014		Soil	S14-Ja03736	X						X

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH C6-C10 less BTEX (F1)	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-BHC	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-BHC	mg/kg	< 0.05			0.05	Pass	
d-BHC	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-BHC (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.2			0.2	Pass	
Toxaphene	mg/kg	< 1			1	Pass	
Method Blank							
Polychlorinated Biphenyls (PCB)							
Aroclor-1016	mg/kg	< 0.5			0.5	Pass	
Aroclor-1232	mg/kg	< 0.5			0.5	Pass	
Aroclor-1242	mg/kg	< 0.5			0.5	Pass	
Aroclor-1248	mg/kg	< 0.5			0.5	Pass	
Aroclor-1254	mg/kg	< 0.5			0.5	Pass	
Aroclor-1260	mg/kg	< 0.5			0.5	Pass	
Total PCB	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	97			70-130	Pass	
TRH C10-C14	%	75			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	99			70-130	Pass	
Toluene	%	93			70-130	Pass	
Ethylbenzene	%	94			70-130	Pass	
m&p-Xylenes	%	94			70-130	Pass	
o-Xylene	%	102			70-130	Pass	
Xylenes - Total	%	97			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	95			70-130	Pass	
TRH C6-C10	%	99			70-130	Pass	
TRH >C10-C16	%	77			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	118			70-130	Pass	
Acenaphthylene	%	105			70-130	Pass	
Anthracene	%	122			70-130	Pass	
Benz(a)anthracene	%	117			70-130	Pass	
Benzo(a)pyrene	%	109			70-130	Pass	
Benzo(b&j)fluoranthene	%	107			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Benzo(g.h.i)perylene	%	99			70-130	Pass	
Benzo(k)fluoranthene	%	119			70-130	Pass	
Chrysene	%	117			70-130	Pass	
Dibenz(a.h)anthracene	%	86			70-130	Pass	
Fluoranthene	%	119			70-130	Pass	
Fluorene	%	123			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	95			70-130	Pass	
Naphthalene	%	120			70-130	Pass	
Phenanthrene	%	110			70-130	Pass	
Pyrene	%	116			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	102			70-130	Pass	
4.4'-DDE	%	113			70-130	Pass	
4.4'-DDT	%	112			70-130	Pass	
a-BHC	%	105			70-130	Pass	
Aldrin	%	105			70-130	Pass	
b-BHC	%	109			70-130	Pass	
d-BHC	%	105			70-130	Pass	
Dieldrin	%	104			70-130	Pass	
Endosulfan I	%	104			70-130	Pass	
Endosulfan II	%	107			70-130	Pass	
Endosulfan sulphate	%	103			70-130	Pass	
Endrin	%	104			70-130	Pass	
Endrin aldehyde	%	107			70-130	Pass	
Endrin ketone	%	109			70-130	Pass	
g-BHC (Lindane)	%	103			70-130	Pass	
Heptachlor	%	99			70-130	Pass	
Heptachlor epoxide	%	103			70-130	Pass	
Hexachlorobenzene	%	80			70-130	Pass	
Methoxychlor	%	116			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls (PCB)							
Aroclor-1260	%	106			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	89			70-130	Pass	
Cadmium	%	88			70-130	Pass	
Chromium	%	94			70-130	Pass	
Copper	%	99			70-130	Pass	
Lead	%	93			70-130	Pass	
Nickel	%	97			70-130	Pass	
Zinc	%	102			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S14-Ja03678	NCP	%	88			70-130	Pass	
TRH C10-C14	S14-Ja03678	NCP	%	83			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S14-Ja03678	NCP	%	96			70-130	Pass	
Toluene	S14-Ja03678	NCP	%	91			70-130	Pass	
Ethylbenzene	S14-Ja03678	NCP	%	91			70-130	Pass	
m&p-Xylenes	S14-Ja03678	NCP	%	90			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
o-Xylene	S14-Ja03678	NCP	%	99			70-130	Pass	
Xylenes - Total	S14-Ja03678	NCP	%	93			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S14-Ja03678	NCP	%	114			70-130	Pass	
TRH C6-C10	S14-Ja03678	NCP	%	87			70-130	Pass	
TRH >C10-C16	S14-Ja03678	NCP	%	84			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S14-Ja03678	NCP	%	121			70-130	Pass	
Acenaphthylene	S14-Ja03678	NCP	%	111			70-130	Pass	
Anthracene	S14-Ja03678	NCP	%	121			70-130	Pass	
Benz(a)anthracene	S14-Ja03678	NCP	%	121			70-130	Pass	
Benzo(a)pyrene	S14-Ja03678	NCP	%	123			70-130	Pass	
Benzo(b&j)fluoranthene	S14-Ja03678	NCP	%	123			70-130	Pass	
Benzo(g.h.i)perylene	S14-Ja03678	NCP	%	110			70-130	Pass	
Benzo(k)fluoranthene	S14-Ja03678	NCP	%	117			70-130	Pass	
Chrysene	S14-Ja03678	NCP	%	125			70-130	Pass	
Dibenz(a.h)anthracene	S14-Ja03678	NCP	%	99			70-130	Pass	
Fluoranthene	S14-Ja03678	NCP	%	125			70-130	Pass	
Fluorene	S14-Ja03678	NCP	%	125			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja03678	NCP	%	108			70-130	Pass	
Naphthalene	S14-Ja03678	NCP	%	114			70-130	Pass	
Phenanthrene	S14-Ja03678	NCP	%	119			70-130	Pass	
Pyrene	S14-Ja03678	NCP	%	124			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S14-Ja03678	NCP	%	97			70-130	Pass	
Cadmium	S14-Ja03678	NCP	%	97			70-130	Pass	
Chromium	S14-Ja03678	NCP	%	107			70-130	Pass	
Copper	S14-Ja03581	NCP	%	127			70-130	Pass	
Lead	S14-Ja03581	NCP	%	75			70-130	Pass	
Mercury	S14-Ja03678	NCP	%	89			70-130	Pass	
Nickel	S14-Ja03678	NCP	%	104			70-130	Pass	
Zinc	S14-Ja03678	NCP	%	73			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls (PCB)				Result 1					
Aroclor-1260	S14-Ja03678	NCP	%	108			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S14-Ja03678	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S14-Ja03678	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S14-Ja03678	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S14-Ja03678	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S14-Ja03678	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S14-Ja03678	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S14-Ja03678	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S14-Ja03678	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S14-Ja03678	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total	S14-Ja03678	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	

Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S14-Ja03678	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S14-Ja03678	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S14-Ja03678	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S14-Ja03678	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S14-Ja03678	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S14-Ja03678	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S14-Ja03678	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S14-Ja03678	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S14-Ja03678	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S14-Ja03678	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S14-Ja03678	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S14-Ja03678	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S14-Ja03678	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S14-Ja03678	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S14-Ja03678	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S14-Ja03678	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S14-Ja03678	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S14-Ja03678	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja03678	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S14-Ja03678	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S14-Ja03678	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S14-Ja03678	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S14-Ja03678	NCP	mg/kg	4.3	5.0	15	30%	Pass	
Cadmium	S14-Ja03678	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S14-Ja03678	NCP	mg/kg	21	34	48	30%	Fail	Q15
Copper	S14-Ja03678	NCP	mg/kg	38	50	28	30%	Pass	
Lead	S14-Ja03678	NCP	mg/kg	43	45	5.0	30%	Pass	
Mercury	S14-Ja03678	NCP	mg/kg	0.080	0.10	21	30%	Pass	
Nickel	S14-Ja03678	NCP	mg/kg	33	46	35	30%	Fail	Q15
Zinc	S14-Ja03678	NCP	mg/kg	90	120	26	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S14-Ja03678	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S14-Ja03678	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S14-Ja03678	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S14-Ja03678	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	S14-Ja03678	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S14-Ja03678	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	S14-Ja03678	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-BHC	S14-Ja03678	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S14-Ja03678	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S14-Ja03678	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S14-Ja03678	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S14-Ja03678	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S14-Ja03678	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S14-Ja03678	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S14-Ja03678	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	S14-Ja03678	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S14-Ja03678	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S14-Ja03678	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	

Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Hexachlorobenzene	S14-Ja03678	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S14-Ja03678	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Toxaphene	S14-Ja03678	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls (PCB)				Result 1	Result 2	RPD			
Aroclor-1016	S14-Ja03678	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1232	S14-Ja03678	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1242	S14-Ja03678	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1248	S14-Ja03678	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1254	S14-Ja03678	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1260	S14-Ja03678	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q15	The RPD reported passes Eurofins | mgt's Acceptance Criteria as stipulated in SOP 05. Refer to Glossary Page of this report for further details

Authorised By

Jean Heng	Client Services
James Norford	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)
Ryan Hamilton	Senior Analyst-Volatile (NSW)

Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

Eurofins | mgt shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins | mgt be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

eurofins | mgt
Unit F3-F6 Building F, Parkview Building
16 Mars Road, Lane Cove West
NSW 2066

page 1 of 1

CHAIN OF CUSTODY

#405477

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square Town Centre Block 19B
SEND REPORT TO: N Cussen SEND INVOICE TO: Greece Ng
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: Chris
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: ncussen@jbsg.com.au
QC LEVEL: NEPM (2013)

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	JB1	JB1T	JB1A	JB2	JB2A	B10	JB2/JBL	JB3/JBL	JB4	JBL	8 Metals	TPH	PAH	BTEX							NOTES:
FC083 0.2-0.3	soil	8/1/14		Jar + Ice																						
FC083 0.5-0.7	↓	↓		↓												x	x	x	x							
FC083 1.5-1.7																										
FC083 2.0-2.2	↓	↓		↓					X																	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Nathan DATE: 10 01 2014 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: Ellen Wa 130114 DATE: 17:00 OF: EFImgt	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C
NAME: DATE: OF:	CONSIGNMENT NOTE NO. TRANSPORT CO	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

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JB1 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1T - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos
JB2 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
B10 - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2/JBL - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)
JB3/JBL - TRH/BTEX/PAH/OCP/OPP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)/Asbestos
JB4 - TRH/BTEX/VOC
JBL - TCLP(PAH & 6 Metals)

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

SAMPLE RECEIPT ADVICE

Client:

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney NSW 2000

ph: 02 8245 0300
Fax: 02 8245 0399

Attention: Nathan Cussen

Sample log in details:

Your reference:	**43182, Green Square Block 19B**
Envirolab Reference:	**103583**
Date received:	15/01/14
Date results expected to be reported:	**24/01/14**

Samples received in appropriate condition for analysis:	YES
No. of samples provided	3 Soils
Turnaround time requested:	Standard
Temperature on receipt (°C)	NA
Cooling Method:	None
Sampling Date Provided:	YES

Comments:

Samples will be held for 1 month for water samples and 2 months for soil samples from date of receipt of samples.

Contact details:

Please direct any queries to Aileen Hie or Jacinta Hurst
ph: 02 9910 6200 fax: 02 9910 6201
email: ahie@envirolabservices.com.au or jhurst@envirolabservices.com.au

Envirolab Services Pty Ltd
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12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

CERTIFICATE OF ANALYSIS 103583

Client:

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention: Nathan Cussen

Sample log in details:

Your Reference:	**43182, Green Square Block 19B**		
No. of samples:	3 Soils		
Date samples received / completed instructions received	15/01/14	/	15/01/14

Analysis Details:

Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by: / Issue Date:	24/01/14	/	23/01/14
Date of Preliminary Report:	Not Issued		

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Accredited for compliance with ISO/IEC 17025. **Tests not covered by NATA are denoted with *.**

Results Approved By:

Jacinta Hurst
Laboratory Manager

Asbestos ID - soils WA			
Our Reference:	UNITS	103583-1	103583-2
Your Reference	----------	FC086	FC086
Depth	----------	0.9-1.1	1.8-2.0
Date Sampled		13/01/2014	13/01/2014
Type of sample		soil	soil
Date analysed	-	23/01/2014	23/01/2014
Sample mass tested	g	695.34g	731.50g
Sample Description	-	Grey coarse-grained soil & rocks	Brown coarse-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected	No respirable fibres detected

Method ID	Methodology Summary
ASB-003	Asbestos ID - Minimum 500mL soil sample was analysed as recommended by "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.1g/kg as per AS4964-2004.

Report Comments:

This report is consistent with the analytical procedures and reporting recommendations in the Western Australian Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009.

Asbestos ID was analysed by Approved Identifier:	Paul Ching
Asbestos ID was authorised by Approved Signatory:	Matt Mansfield

INS: Insufficient sample for this test	PQL: Practical Quantitation Limit	NT: Not tested
NA: Test not required	RPD: Relative Percent Difference	NA: Test not required
<: Less than	>: Greater than	LCS: Laboratory Control Sample

Quality Control Definitions

Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

Duplicate: This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

Matrix Spike : A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

LCS (Laboratory Control Sample) : This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Surrogate Spike: Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.
Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.
Spikes for Physical and Aggregate Tests are not applicable.
For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.
Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for SVOC and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Envirolab Services Pty Ltd
12 Ashley Street
Chatswood
NSW 2067

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square Block 19B
SEND REPORT TO: N Cussen SEND INVOICE TO: G Ng
DATE NEEDED BY: STD TAT

LABORATORY BATCH NO.:
SAMPLERS: Chris
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: ncussen@jbsg.com.au
QC LEVEL: NEPM (2013)

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	COMBO SUITES: SOIL - 4	SOIL – 4L	SOIL – 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER – 1m	WATER – 2L	WATER – 3L	Asbestos	NOTES:
1	FC086 0.7 - 1.1	Soil	13-1-14		Bag												X	
2	FC086 1.8 - 2.0	Soil	↓		↓												X	
3	FC086 2.8 - 3.0	Soil	↓		↓													

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 108583
Date Received: 15/1/14
Time Received: ~~15/1/14~~ 18:00
Received by:
Temp: Cool/~~Ambient~~
Cooling: Ice/Icepack
Security: Intact/Broken/None

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Nathan DATE: 15-1-14	CONSIGNMENT NOTE NO.	NAME: Kevin Wang	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 15/1/14 18:00	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	OF: ALS	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	NAME: DATE: OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Envirolab

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

Envirolab Services Pty Ltd
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12 Ashley St Chatswood NSW 2067
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enquiries@envirolabservices.com.au
www.envirolabservices.com.au

SAMPLE RECEIPT ADVICE

Client:

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney NSW 2000

ph: 02 8245 0300
Fax: 02 8245 0399

Attention: Joanne Rosner, Nathan Cussen

Sample log in details:

Your reference:	**43182, Green Square Block 19B**
Envirolab Reference:	**103453**
Date received:	14/01/14
Date results expected to be reported:	**21/01/14**

Samples received in appropriate condition for analysis:	YES
No. of samples provided	4 soils
Turnaround time requested:	Standard
Temperature on receipt (°C)	NA
Cooling Method:	None
Sampling Date Provided:	YES

Comments:

Samples will be held for 1 month for water samples and 2 months for soil samples from date of receipt of samples.

Contact details:

Please direct any queries to Aileen Hie or Jacinta Hurst
ph: 02 9910 6200 fax: 02 9910 6201
email: ahie@envirolabservices.com.au or jhurst@envirolabservices.com.au

Envirolab Services Pty Ltd
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12 Ashley St Chatswood NSW 2067
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www.envirolabservices.com.au

CERTIFICATE OF ANALYSIS 103453

Client:
JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention: Joanne Rosner, Nathan Cussen

Sample log in details:

Your Reference:	**43182, Green Square Block 19B**		
No. of samples:	4 soils		
Date samples received / completed instructions received	14/01/14	/	14/01/14

Analysis Details:
Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by: / Issue Date:	21/01/14	/	17/01/14
Date of Preliminary Report:	Not Issued		

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Accredited for compliance with ISO/IEC 17025. **Tests not covered by NATA are denoted with *.**

Results Approved By:

Jacinta Hurst
Laboratory Manager

Asbestos ID - soils WA			
Our Reference:	UNITS	103453-1	103453-2
Your Reference	----------	FC083	FC083
Depth	----------	0.2-0.3	0.5-0.7
Date Sampled		08/01/2014	08/01/2014
Type of sample		soil	soil
Date analysed	-	16/01/2014	16/01/2014
Sample mass tested	g	904.87g	870.89g
Sample Description	-	Brown coarse-grained & rocks	Grey coarse-grained & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected	No respirable fibres detected

Method ID	Methodology Summary
ASB-003	Asbestos ID - Minimum 500mL soil sample was analysed as recommended by "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.1g/kg as per AS4964-2004.

Report Comments:

This report is consistent with the analytical procedures and reporting recommendations in the Western Australian Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009.

Sample 103453-2; Loose fibre bundles of chrysotile asbestos identified within the sample (total weight 0.0007g). This is 100% asbestos fibres by weight, which in 870.89g of soil is 0.00g/kg (i.e. < reporting limit for the method of 0.1g/kg).

Asbestos ID was analysed by Approved Identifier:	Paul Ching
Asbestos ID was authorised by Approved Signatory:	Paul Ching

INS: Insufficient sample for this test	PQL: Practical Quantitation Limit	NT: Not tested
NA: Test not required	RPD: Relative Percent Difference	NA: Test not required
<: Less than	>: Greater than	LCS: Laboratory Control Sample

Quality Control Definitions

Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

Duplicate: This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

Matrix Spike : A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

LCS (Laboratory Control Sample) : This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Surrogate Spike: Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.
Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.
Spikes for Physical and Aggregate Tests are not applicable.
For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.
Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for SVOC and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

12 Ashley Street
Chatswood
NSW 2067

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 43187
PROJECT NAME: Green Square Block 19B
SEND REPORT TO: N Cussen SEND INVOICE TO: Grace Ng
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: Chris B
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: ncussen@jbsg.com.au
QC LEVEL: NEPM (2013)

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	COMBO SUITES: SOIL - 4	SOIL – 4L	SOIL – 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER – 1m	WATER – 2L	WATER – 3L	Asbestos (Bag)	NOTES:
1	FC083 0.2 - 0.3	Soil	8/1/14		Bag 500 ml													
2	FC083 0.5 - 0.7	↓	↓		↓												X	
3	FC083 1.5 - 1.7																X	
4	FC083 - 2.0 - 2.2																	

Envirolab Service.
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200
Job No: 103453
Date Received: 14.1.14
Time Received: 9:00
Received by: DF
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

RELINQUISHED BY:
NAME: Nathan DATE: 14 01 2014
OF: JBS&G
NAME: DATE:
OF:

METHOD OF SHIPMENT:
CONSIGNMENT NOTE NO.
TRANSPORT CO.
CONSIGNMENT NOTE NO.
TRANSPORT CO

RECEIVED BY:
NAME: Daniel Ford
DATE: 24.1.14
OF: EAS
NAME: DATE:
OF:

FOR RECEIVING LAB USE ONLY:
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Envirolab

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

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ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

Melbourne
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NATA # 1261
Site # 1254 & 14271

Sydney
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Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Sample Receipt Advice

Company name:	**JBS & G (NSW & WA) Pty Ltd**
Contact name:	Nathan Cussen
Client job number:	ADDITIONAL: GREEN SQUARE BLOCK 19A 43182
COC number:	Not provided
Turn around time:	5 Day
Date/Time received:	Jan 22, 2014 9:25 AM
Eurofins | mgt reference:	**406258**

Sample information

☑ A detailed list of analytes logged into our LIMS, is included in the attached summary table.

☑ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt Sample Receipt : 7 degrees Celsius.

☑ All samples have been received as described on the above COC.

☑ COC has been completed correctly.

☑ Attempt to chill was evident.

☑ Appropriately preserved sample containers have been used.

☑ All samples were received in good condition.

☑ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.

☑ Organic samples had Teflon liners.

☒ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Notes

Additonal from 405464

Contact notes

If you have any questions with respect to these samples please contact:

Jean Heng on Phone : (+61) (2) 9900 8400 or by e.mail: JeanHeng@eurofins.com.au

Results will be delivered electronically via e.mail to Nathan Cussen - ncussen@jbsg.com.au.

Eurofins | mgt Sample Receipt

eurofins | mgt

ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

Melbourne
3-5 Kingston Town Close
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Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name:	JBS & G (NSW & WA) Pty Ltd	**Order No.:**		**Received:**	Jan 22, 2014 9:25 AM
Address:	Level 1, 50 Margaret St Sydney NSW 2000	**Report #:**	406258	**Due:**	Jan 30, 2014
		Phone:	02 8245 0300	**Priority:**	5 Day
		Fax:		**Contact Name:**	Nathan Cussen
Client Job No.:	ADDITIONAL: GREEN SQUARE BLOCK 19A 43182				

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Polycyclic Aromatic Hydrocarbons	Toxicity Characteristic Leaching Procedure (TCLP)	Metals M8
Laboratory where analysis is conducted								
Melbourne Laboratory - NATA Site # 1254 & 14271								
Sydney Laboratory - NATA Site # 18217					X	X	X	X
Brisbane Laboratory - NATA Site # 20794								
External Laboratory								
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**				
FC085 0.2-0.3	Jan 08, 2014		TCLP	S14-Ja09773	X	X	X	X
FC087 0.2-0.3	Jan 08, 2014		TCLP	S14-Ja09774	X		X	X
FC087 4.5-4.7	Jan 08, 2014		TCLP	S14-Ja09775	X		X	X

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Certificate of Analysis

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Nathan Cussen**

Report **406258-L**
Client Reference ADDITIONAL: GREEN SQUARE BLOCK 19A 43182
Received Date Jan 22, 2014

Client Sample ID **Sample Matrix** **Eurofins | mgt Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**FC085 0.2-0.3** **TCLP** **S14-Ja09773** **Jan 08, 2014**	**FC087 0.2-0.3** **TCLP** **S14-Ja09774** **Jan 08, 2014**	**FC087 4.5-4.7** **TCLP** **S14-Ja09775** **Jan 08, 2014**
Polycyclic Aromatic Hydrocarbons					
Acenaphthene	0.001	mg/L	< 0.001	-	-
Acenaphthylene	0.001	mg/L	< 0.001	-	-
Anthracene	0.001	mg/L	< 0.001	-	-
Benz(a)anthracene	0.001	mg/L	< 0.001	-	-
Benzo(a)pyrene	0.001	mg/L	< 0.001	-	-
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	< 0.001	-	-
Benzo(g.h.i)perylene	0.001	mg/L	< 0.001	-	-
Benzo(k)fluoranthene	0.001	mg/L	< 0.001	-	-
Chrysene	0.001	mg/L	< 0.001	-	-
Dibenz(a.h)anthracene	0.001	mg/L	< 0.001	-	-
Fluoranthene	0.001	mg/L	< 0.001	-	-
Fluorene	0.001	mg/L	< 0.001	-	-
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001	-	-
Naphthalene	0.001	mg/L	0.005	-	-
Phenanthrene	0.001	mg/L	0.001	-	-
Pyrene	0.001	mg/L	< 0.001	-	-
Total PAH	0.002	mg/L	0.006	-	-
2-Fluorobiphenyl (surr.)	1	%	105	-	-
p-Terphenyl-d14 (surr.)	1	%	124	-	-
Heavy Metals					
Arsenic	0.01	mg/L	< 0.01	< 0.01	< 0.01
Cadmium	0.005	mg/L	< 0.005	< 0.005	< 0.005
Chromium	0.05	mg/L	< 0.05	< 0.05	< 0.05
Copper	0.05	mg/L	0.09	< 0.05	< 0.05
Lead	0.01	mg/L	0.50	0.04	0.10
Mercury	0.001	mg/L	< 0.001	< 0.001	< 0.001
Nickel	0.05	mg/L	< 0.05	< 0.05	< 0.05
Zinc	0.05	mg/L	1.5	0.55	0.12
% Moisture	0.1	%	15	11	24
Toxicity Characteristic Leaching Procedure (TCLP)					
Leachate Fluid[C01]		comment	1.0	1.0	1.0
pH (TCLP - HCl addition)	0.1	units	1.8	1.8	1.8
pH (TCLP - initial)	0.1	units	9.0	8.4	9.0
pH (TCLP - off)	0.1	units	5.2	5.7	5.0

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Polycyclic Aromatic Hydrocarbons	Sydney	Jan 24, 2014	7 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Metals M8	Sydney	Jan 23, 2014	28 Day
- Method: E022 Acid Extractable metals in Soils & E026 Mercury			
% Moisture	Sydney	Jan 23, 2014	0 Day
- Method: E005 Moisture Content			
Toxicity Characteristic Leaching Procedure (TCLP)	Sydney	Jan 23, 2014	0 Day
- Method: E019 TCLP Preparation			

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		Fax:		**Contact Name:**	Nathan Cussen
Client Job No.:	ADDITIONAL: GREEN SQUARE BLOCK 19A 43182				

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Polycyclic Aromatic Hydrocarbons	Toxicity Characteristic Leaching Procedure (TCLP)	Metals M8
Laboratory where analysis is conducted								
Melbourne Laboratory - NATA Site # 1254 & 14271								
Sydney Laboratory - NATA Site # 18217					X	X	X	X
Brisbane Laboratory - NATA Site # 20794								
External Laboratory								
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**				
FC085 0.2-0.3	Jan 08, 2014		TCLP	S14-Ja09773	X	X	X	X
FC087 0.2-0.3	Jan 08, 2014		TCLP	S14-Ja09774	X		X	X
FC087 4.5-4.7	Jan 08, 2014		TCLP	S14-Ja09775	X		X	X

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/L	< 0.001			0.001	Pass	
Acenaphthylene	mg/L	< 0.001			0.001	Pass	
Anthracene	mg/L	< 0.001			0.001	Pass	
Benz(a)anthracene	mg/L	< 0.001			0.001	Pass	
Benzo(a)pyrene	mg/L	< 0.001			0.001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.001			0.001	Pass	
Benzo(g.h.i)perylene	mg/L	< 0.001			0.001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.001			0.001	Pass	
Chrysene	mg/L	< 0.001			0.001	Pass	
Dibenz(a.h)anthracene	mg/L	< 0.001			0.001	Pass	
Fluoranthene	mg/L	< 0.001			0.001	Pass	
Fluorene	mg/L	< 0.001			0.001	Pass	
Indeno(1.2.3-cd)pyrene	mg/L	< 0.001			0.001	Pass	
Naphthalene	mg/L	< 0.001			0.001	Pass	
Phenanthrene	mg/L	< 0.001			0.001	Pass	
Pyrene	mg/L	< 0.001			0.001	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.01			0.01	Pass	
Cadmium	mg/L	< 0.005			0.005	Pass	
Chromium	mg/L	< 0.05			0.05	Pass	
Copper	mg/L	< 0.05			0.05	Pass	
Lead	mg/L	< 0.01			0.01	Pass	
Mercury	mg/L	< 0.001			0.001	Pass	
Nickel	mg/L	< 0.05			0.05	Pass	
Zinc	mg/L	< 0.05			0.05	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S14-Ja09745	NCP	%	118			70-130	Pass	
Acenaphthylene	S14-Ja09745	NCP	%	110			70-130	Pass	
Anthracene	S14-Ja09745	NCP	%	115			70-130	Pass	
Benz(a)anthracene	S14-Ja09745	NCP	%	109			70-130	Pass	
Benzo(a)pyrene	S14-Ja09745	NCP	%	123			70-130	Pass	
Benzo(b&j)fluoranthene	S14-Ja09745	NCP	%	111			70-130	Pass	
Benzo(g.h.i)perylene	S14-Ja09745	NCP	%	102			70-130	Pass	
Benzo(k)fluoranthene	S14-Ja09745	NCP	%	123			70-130	Pass	
Chrysene	S14-Ja09745	NCP	%	120			70-130	Pass	
Dibenz(a.h)anthracene	S14-Ja09745	NCP	%	101			70-130	Pass	
Fluoranthene	S14-Ja09745	NCP	%	126			70-130	Pass	
Fluorene	S14-Ja09745	NCP	%	120			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja09745	NCP	%	108			70-130	Pass	
Naphthalene	S14-Ja09745	NCP	%	129			70-130	Pass	
Phenanthrene	S14-Ja09745	NCP	%	123			70-130	Pass	
Pyrene	S14-Ja09745	NCP	%	127			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S14-Ja09760	NCP	%	98			70-130	Pass	
Cadmium	S14-Ja09760	NCP	%	99			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Chromium	S14-Ja09760	NCP	%	94			70-130	Pass	
Copper	S14-Ja09760	NCP	%	91			70-130	Pass	
Lead	S14-Ja09760	NCP	%	88			70-130	Pass	
Mercury	S14-Ja09760	NCP	%	97			70-130	Pass	
Nickel	S14-Ja09760	NCP	%	91			70-130	Pass	
Zinc	S14-Ja09760	NCP	%	92			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Acenaphthylene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Anthracene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benz(a)anthracene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(a)pyrene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(b&j)fluoranthene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(g.h.i)perylene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(k)fluoranthene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chrysene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibenz(a.h)anthracene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluoranthene	S14-Ja09744	NCP	mg/L	0.0030	0.0030	14	30%	Pass	
Fluorene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Naphthalene	S14-Ja09744	NCP	mg/L	0.017	0.017	1.0	30%	Pass	
Phenanthrene	S14-Ja09744	NCP	mg/L	0.0030	0.0030	9.0	30%	Pass	
Pyrene	S14-Ja09744	NCP	mg/L	0.0030	0.0030	13	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S14-Ja09758	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Cadmium	S14-Ja09758	NCP	mg/L	0.0070	0.0070	4.0	30%	Pass	
Chromium	S14-Ja09758	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Copper	S14-Ja09758	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Lead	S14-Ja09758	NCP	mg/L	0.20	0.20	<1	30%	Pass	
Mercury	S14-Ja09758	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Nickel	S14-Ja09758	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Zinc	S14-Ja09758	NCP	mg/L	0.86	0.86	1.0	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
C01	Leachate Fluid Key: 1 - pH 5.0, 2 - pH 2.9, 3 - pH 9.2, 4 - Reagent (DI) water, 5 - Client sample, 6 - other
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs

Authorised By

Jean Heng	Client Services
James Norford	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)

Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

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From: Nathan Cussen [mailto:NCussen@jbsg.com.au]
Sent: Wednesday, 22 January 2014 9:27 AM
To: Jean Heng
Subject: FW: LAB BATCH 405464 Additional TCLP Analysis

Sorry for get to say TCLP analysis

From: Nathan Cussen
Sent: Wednesday, 22 January 2014 9:20 AM
To: 'Jean Heng'
Subject: LAB BATCH 405464 Additional Analysis

Hi Jean,

Could I please schedule the following additional analysis:

- FC085 0.2-0.3 PAH & METALS
- FC087 0.2-0.3 METALS
- FC087 4.5-4.7 METALS

GW #406258

Regards Nathan

Nathan Cussen | Senior Environmental Consultant| JBS&G
Sydney | Melbourne | Adelaide | Perth | Brisbane
Level 1, 50 Margaret Street, Sydney NSW 2000
T: 02 8245 0300 | M: 0431 401 022| www.jbsg.com.au
Contaminated Land | Groundwater Remediation | Auditing and Compliance | Assessments and Approvals | Occupational Hygiene and Monitoring

If you would like to send through large electronic files (>25MB), please use JBS&G's secure internet-based file delivery system located at http://dropbox.yousendit.com/JBSG. Place `Nathan Cussen - Sydney in the subject.
This email message is intended only for the addressee(s) and contains information that may be confidential and/or copyright. If you are not the intended recipient please delete this email immediately. Use, disclosure or reproduction of this email by anyone other than the intended recipient(s) is strictly prohibited. No representation is made that this email or any attachments are free of viruses and the recipient is responsible for undertaking appropriate virus scanning. Any advice provided in or attached to this email is subject to limitations.

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ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

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NATA # 1261
Site # 1254 & 14271

Sydney
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16 Mars Road
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Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Sample Receipt Advice

Company name: **JBS & G (NSW & WA) Pty Ltd**

Contact name: Nathan Cussen
Client job number: GREEN SQUARE BLOCK 19A 43182
COC number: Not provided
Turn around time: 5 Day
Date/Time received: Jan 13, 2014 5:00 PM
Eurofins | mgt reference: **405464**

Sample information

☑ A detailed list of analytes logged into our LIMS, is included in the attached summary table.

☑ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt Sample Receipt : 7 degrees Celsius.

☑ All samples have been received as described on the above COC.

☑ COC has been completed correctly.

☑ Attempt to chill was evident.

☑ Appropriately preserved sample containers have been used.

☑ All samples were received in good condition.

☑ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.

☑ Organic samples had Teflon liners.

☒ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Contact notes

If you have any questions with respect to these samples please contact:

Jean Heng on Phone : (+61) (2) 9900 8400 or by e.mail: JeanHeng@eurofins.com.au

Results will be delivered electronically via e.mail to Nathan Cussen - ncussen@jbsg.com.au.

Eurofins | mgt Sample Receipt

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ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

Melbourne
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1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: GREEN SQUARE BLOCK 19A 43182

Order No.:
Report #: 405464
Phone: 02 8245 0300
Fax:

Received: Jan 13, 2014 5:00 PM
Due: Jan 21, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Total Recoverable Hydrocarbons	Foreign Materials - ENM	JBS&G Suite 2
Laboratory where analysis is conducted														
Melbourne Laboratory - NATA Site # 1254 & 14271														
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
External Laboratory														
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**										
FC084 0.1-0.2	Jan 08, 2014		Soil	S14-Ja03678	X									X
FC084 0.5-0.7	Jan 08, 2014		Soil	S14-Ja03679			X							
FC084 1.0-1.2	Jan 08, 2014		Soil	S14-Ja03680	X				X					
FC084 1.8-2.0	Jan 08, 2014		Soil	S14-Ja03681			X							
FC084 4.5-4.7	Jan 08, 2014		Soil	S14-Ja03682	X				X	X		X		
FC085 0.2-0.3	Jan 08, 2014		Soil	S14-Ja03683	X									X
FC085 0.6-0.9	Jan 08, 2014		Soil	S14-Ja03684			X							
FC085 1.5-1.8	Jan 08, 2014		Soil	S14-Ja03685			X							
FC085 3.8-4.0	Jan 08, 2014		Soil	S14-Ja03686			X							
FC087 0.2-0.3	Jan 08, 2014		Soil	S14-Ja03687	X									X

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ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

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Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: GREEN SQUARE BLOCK 19A 43182

Order No.:
Report #: 405464
Phone: 02 8245 0300
Fax:

Received: Jan 13, 2014 5:00 PM
Due: Jan 21, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Total Recoverable Hydrocarbons	Foreign Materials - ENM	JBS&G Suite 2
Laboratory where analysis is conducted														
Melbourne Laboratory - NATA Site # 1254 & 14271														
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
External Laboratory														
FC087 0.8-1.0	Jan 08, 2014		Soil	S14-Ja03688			X							
FC087 1.2-1.5	Jan 08, 2014		Soil	S14-Ja03689			X							
FC087 2.7-2.9	Jan 08, 2014		Soil	S14-Ja03690	X	X		X					X	X
FC087 4.5-4.7	Jan 08, 2014		Soil	S14-Ja03691	X				X	X	X	X		
FC088 0.2-0.3	Jan 08, 2014		Soil	S14-Ja03692			X							
FC088 0.8-1.0	Jan 08, 2014		Soil	S14-Ja03693	X				X	X		X		
FC088 1.5-1.7	Jan 08, 2014		Soil	S14-Ja03694			X							
FC088 2.2-2.4	Jan 08, 2014		Soil	S14-Ja03695	X	X		X					X	X
FC088 3.8-4.0	Jan 08, 2014		Soil	S14-Ja03696			X							

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Certificate of Analysis

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Nathan Cussen**

Report **405464-S**
Client Reference GREEN SQUARE BLOCK 19A 43182
Received Date Jan 13, 2014

Client Sample ID **Sample Matrix** **Eurofins | mgt Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**FC084 0.1-0.2** **Soil** **S14-Ja03678** **Jan 08, 2014**	**FC084 1.0-1.2** **Soil** **S14-Ja03680** **Jan 08, 2014**	**FC084 4.5-4.7** **Soil** **S14-Ja03682** **Jan 08, 2014**	**FC085 0.2-0.3** **Soil** **S14-Ja03683** **Jan 08, 2014**
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	-	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	-	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	-	< 50	75
TRH C29-C36	50	mg/kg	< 50	-	< 50	84
TRH C10-36 (Total)	50	mg/kg	< 50	-	< 50	160
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	-	< 0.1
Toluene	0.1	mg/kg	< 0.1	-	-	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	-	-	< 0.1
Xylenes - Total	0.3	mg/kg	< 0.3	-	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	123	-	-	76
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	-	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	-	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	-	< 100	130
TRH >C34-C40	100	mg/kg	< 100	-	< 100	< 100
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.6
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	1.6
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	1.6
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	1.0
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	1.0
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	1.9
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	1.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	2.9
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.8
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC084 0.1-0.2 Soil S14-Ja03678 Jan 08, 2014	FC084 1.0-1.2 Soil S14-Ja03680 Jan 08, 2014	FC084 4.5-4.7 Soil S14-Ja03682 Jan 08, 2014	FC085 0.2-0.3 Soil S14-Ja03683 Jan 08, 2014
Polycyclic Aromatic Hydrocarbons						
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	1.4
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	2.9
Total PAH	0.5	mg/kg	< 0.5	< 0.5	< 0.5	17
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	2.2
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	0.6	0.6	0.6	2.5
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	1.2	1.2	1.2	2.7
2-Fluorobiphenyl (surr.)	1	%	85	86	98	83
p-Terphenyl-d14 (surr.)	1	%	98	98	113	96
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	-	-	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	-	-	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	-	-	< 0.05
a-BHC	0.05	mg/kg	< 0.05	-	-	< 0.05
Aldrin	0.05	mg/kg	< 0.05	-	-	< 0.05
b-BHC	0.05	mg/kg	< 0.05	-	-	< 0.05
d-BHC	0.05	mg/kg	< 0.05	-	-	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	-	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	-	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	< 0.05
Methoxychlor	0.2	mg/kg	< 0.2	-	-	< 0.2
Toxaphene	1	mg/kg	< 1	-	-	< 1
Dibutylchlorendate (surr.)	1	%	92	-	-	94
Tetrachloro-m-xylene (surr.)	1	%	78	-	-	77
Polychlorinated Biphenyls (PCB)						
Aroclor-1016	0.5	mg/kg	< 0.5	-	-	< 0.5
Aroclor-1232	0.5	mg/kg	< 0.5	-	-	< 0.5
Aroclor-1242	0.5	mg/kg	< 0.5	-	-	< 0.5
Aroclor-1248	0.5	mg/kg	< 0.5	-	-	< 0.5
Aroclor-1254	0.5	mg/kg	< 0.5	-	-	< 0.5
Aroclor-1260	0.5	mg/kg	< 0.5	-	-	< 0.5
Total PCB	0.5	mg/kg	< 0.5	-	-	< 0.5
Dibutylchlorendate (surr.)	1	%	92	-	-	94
% Moisture	0.1	%	11	17	27	15
Heavy Metals						
Arsenic	2	mg/kg	4.3	-	8.8	4.3
Cadmium	0.4	mg/kg	< 0.4	-	< 0.4	< 0.4
Chromium	5	mg/kg	21	-	12	11
Copper	5	mg/kg	38	-	17	79
Lead	5	mg/kg	43	-	14	180

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC084 0.1-0.2 Soil S14-Ja03678 Jan 08, 2014	FC084 1.0-1.2 Soil S14-Ja03680 Jan 08, 2014	FC084 4.5-4.7 Soil S14-Ja03682 Jan 08, 2014	FC085 0.2-0.3 Soil S14-Ja03683 Jan 08, 2014
Heavy Metals						
Mercury	0.05	mg/kg	0.08	-	< 0.05	0.30
Nickel	5	mg/kg	33	-	< 5	9.7
Zinc	5	mg/kg	90	-	13	130

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC087 0.2-0.3 Soil S14-Ja03687 Jan 08, 2014	FC087 2.7-2.9 Soil S14-Ja03690 Jan 08, 2014	FC087 4.5-4.7 Soil S14-Ja03691 Jan 08, 2014	FC088 0.8-1.0 Soil S14-Ja03693 Jan 08, 2014
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Xylenes - Total	0.3	mg/kg	< 0.3	< 0.3	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	88	125	121	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.7
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.6
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.7
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.6
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	1.4
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	1.0
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	1.2

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC087 0.2-0.3 Soil S14-Ja03687 Jan 08, 2014	FC087 2.7-2.9 Soil S14-Ja03690 Jan 08, 2014	FC087 4.5-4.7 Soil S14-Ja03691 Jan 08, 2014	FC088 0.8-1.0 Soil S14-Ja03693 Jan 08, 2014
Polycyclic Aromatic Hydrocarbons						
Total PAH	0.5	mg/kg	< 0.5	< 0.5	< 0.5	6.7
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.8
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	0.6	0.6	0.6	1.1
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	1.2	1.2	1.2	1.4
2-Fluorobiphenyl (surr.)	1	%	82	82	84	89
p-Terphenyl-d14 (surr.)	1	%	94	94	99	94
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	-	-
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	-	-
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	-	-
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	-	-
a-BHC	0.05	mg/kg	< 0.05	< 0.05	-	-
Aldrin	0.05	mg/kg	< 0.05	< 0.05	-	-
b-BHC	0.05	mg/kg	< 0.05	< 0.05	-	-
d-BHC	0.05	mg/kg	< 0.05	< 0.05	-	-
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	-	-
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	-	-
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	-	-
Endrin	0.05	mg/kg	< 0.05	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	-	-
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	-	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	< 0.05	-	-
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	-	-
Methoxychlor	0.2	mg/kg	< 0.2	< 0.2	-	-
Toxaphene	1	mg/kg	< 1	< 1	-	-
Dibutylchlorendate (surr.)	1	%	88	95	-	-
Tetrachloro-m-xylene (surr.)	1	%	73	78	-	-
Polychlorinated Biphenyls (PCB)						
Aroclor-1016	0.5	mg/kg	< 0.5	< 0.5	-	-
Aroclor-1232	0.5	mg/kg	< 0.5	< 0.5	-	-
Aroclor-1242	0.5	mg/kg	< 0.5	< 0.5	-	-
Aroclor-1248	0.5	mg/kg	< 0.5	< 0.5	-	-
Aroclor-1254	0.5	mg/kg	< 0.5	< 0.5	-	-
Aroclor-1260	0.5	mg/kg	< 0.5	< 0.5	-	-
Total PCB	0.5	mg/kg	< 0.5	< 0.5	-	-
Dibutylchlorendate (surr.)	1	%	88	95	-	-
Conductivity (1:5 aqueous extract at 25°C)	5	uS/cm	-	78	-	-
pH (1:5 Aqueous extract)	0.1	units	-	8.4	-	-
% Moisture	0.1	%	10	18	3.2	4.0
Initial Weight	0.01	kg	-	5.9	-	-
Heavy Metals						
Arsenic	2	mg/kg	6.5	< 2	4.2	9.4
Cadmium	0.4	mg/kg	1.0	< 0.4	0.8	< 0.4
Chromium	5	mg/kg	11	12	19	5.1
Copper	5	mg/kg	170	15	36	40

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC087 0.2-0.3 Soil S14-Ja03687 Jan 08, 2014	FC087 2.7-2.9 Soil S14-Ja03690 Jan 08, 2014	FC087 4.5-4.7 Soil S14-Ja03691 Jan 08, 2014	FC088 0.8-1.0 Soil S14-Ja03693 Jan 08, 2014
Heavy Metals						
Lead	5	mg/kg	350	51	180	90
Mercury	0.05	mg/kg	0.47	0.07	0.16	0.13
Nickel	5	mg/kg	15	< 5	7.3	9.6
Zinc	5	mg/kg	360	17	130	140
Foreign Material - Type I						
Metal*	0.1	%	-	< 0.1	-	-
Glass*	0.1	%	-	0.6	-	-
Asphalt*	0.1	%	-	< 0.1	-	-
Stone*	0.1	%	-	8.5	-	-
Ceramic and slag (other than blast furnace slag)*	0.1	%	-	< 0.1	-	-
Foreign Material - Type II						
Plaster*	0.1	%	-	< 0.1	-	-
Clay lumps and other friable material*	0.1	%	-	5.8	-	-
Foreign Material - Type III						
Rubber*	0.05	%	-	< 0.05	-	-
Plastic*	0.05	%	-	< 0.05	-	-
Bitumen*	0.05	%	-	0.23	-	-
Paper*	0.05	%	-	< 0.05	-	-
Cloth*	0.05	%	-	< 0.05	-	-
Paint*	0.05	%	-	< 0.05	-	-
Wood and other vegetable matter*	0.05	%	-	< 0.05	-	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC088 2.2-2.4 Soil S14-Ja03695 Jan 08, 2014
Total Recoverable Hydrocarbons - 1999 NEPM Fractions			
TRH C6-C9	20	mg/kg	< 20
TRH C10-C14	20	mg/kg	< 20
TRH C15-C28	50	mg/kg	< 50
TRH C29-C36	50	mg/kg	< 50
TRH C10-36 (Total)	50	mg/kg	< 50
BTEX			
Benzene	0.1	mg/kg	< 0.1
Toluene	0.1	mg/kg	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2
o-Xylene	0.1	mg/kg	< 0.1
Xylenes - Total	0.3	mg/kg	< 0.3
4-Bromofluorobenzene (surr.)	1	%	92
Total Recoverable Hydrocarbons - 2013 NEPM Fractions			
Naphthalene[N02]	0.5	mg/kg	< 0.5
TRH C6-C10	20	mg/kg	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20
TRH >C10-C16	50	mg/kg	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50

Client Sample ID			FC088 2.2-2.4
Sample Matrix			**Soil**
Eurofins | mgt Sample No.			**S14-Ja03695**
Date Sampled			**Jan 08, 2014**
Test/Reference	LOR	Unit	
Total Recoverable Hydrocarbons - 2013 NEPM Fractions			
TRH >C16-C34	100	mg/kg	< 100
TRH >C34-C40	100	mg/kg	< 100
Polycyclic Aromatic Hydrocarbons			
Acenaphthene	0.5	mg/kg	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5
Anthracene	0.5	mg/kg	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5
Chrysene	0.5	mg/kg	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5
Fluorene	0.5	mg/kg	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5
Naphthalene	0.5	mg/kg	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5
Pyrene	0.5	mg/kg	< 0.5
Total PAH	0.5	mg/kg	< 0.5
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	< 0.5
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	0.6
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	1.2
2-Fluorobiphenyl (surr.)	1	%	91
p-Terphenyl-d14 (surr.)	1	%	95
Organochlorine Pesticides			
Chlordanes - Total	0.1	mg/kg	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05
a-BHC	0.05	mg/kg	< 0.05
Aldrin	0.05	mg/kg	< 0.05
b-BHC	0.05	mg/kg	< 0.05
d-BHC	0.05	mg/kg	< 0.05
Dieldrin	0.05	mg/kg	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05
Endrin	0.05	mg/kg	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05
Heptachlor	0.05	mg/kg	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05
Methoxychlor	0.2	mg/kg	< 0.2
Toxaphene	1	mg/kg	< 1
Dibutylchlorendate (surr.)	1	%	91
Tetrachloro-m-xylene (surr.)	1	%	76

Client Sample ID			FC088 2.2-2.4
Sample Matrix			**Soil**
Eurofins | mgt Sample No.			**S14-Ja03695**
Date Sampled			**Jan 08, 2014**
Test/Reference	LOR	Unit	
Polychlorinated Biphenyls (PCB)			
Aroclor-1016	0.5	mg/kg	< 0.5
Aroclor-1232	0.5	mg/kg	< 0.5
Aroclor-1242	0.5	mg/kg	< 0.5
Aroclor-1248	0.5	mg/kg	< 0.5
Aroclor-1254	0.5	mg/kg	< 0.5
Aroclor-1260	0.5	mg/kg	< 0.5
Total PCB	0.5	mg/kg	< 0.5
Dibutylchlorendate (surr.)	1	%	91
Conductivity (1:5 aqueous extract at 25°C)	5	uS/cm	180
pH (1:5 Aqueous extract)	0.1	units	7.4
% Moisture	0.1	%	5.9
Initial Weight	0.01	kg	6.5
Heavy Metals			
Arsenic	2	mg/kg	< 2
Cadmium	0.4	mg/kg	< 0.4
Chromium	5	mg/kg	< 5
Copper	5	mg/kg	12
Lead	5	mg/kg	54
Mercury	0.05	mg/kg	0.07
Nickel	5	mg/kg	< 5
Zinc	5	mg/kg	23
Foreign Material - Type I			
Metal*	0.1	%	< 0.1
Glass*	0.1	%	< 0.1
Asphalt*	0.1	%	< 0.1
Stone*	0.1	%	0.6
Ceramic and slag (other than blast furnace slag)*	0.1	%	< 0.1
Foreign Material - Type II			
Plaster*	0.1	%	< 0.1
Clay lumps and other friable material*	0.1	%	0.5
Foreign Material - Type III			
Rubber*	0.05	%	< 0.05
Plastic*	0.05	%	< 0.05
Bitumen*	0.05	%	< 0.05
Paper*	0.05	%	< 0.05
Cloth*	0.05	%	< 0.05
Paint*	0.05	%	< 0.05
Wood and other vegetable matter*	0.05	%	< 0.05

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Jan 15, 2014	14 Day
- Method: E004 Petroleum Hydrocarbons (TPH)			
BTEX	Sydney	Jan 15, 2014	14 Day
- Method: E029/E016 BTEX			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jan 15, 2014	14 Day
- Method: LM-LTM-ORG2010			
Polycyclic Aromatic Hydrocarbons	Sydney	Jan 15, 2014	14 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Organochlorine Pesticides	Sydney	Jan 15, 2014	14 Day
- Method: E013 Organochlorine Pesticides (OC)			
Polychlorinated Biphenyls (PCB)	Sydney	Jan 15, 2014	28 Day
- Method: E013 Polychlorinated Biphenyls (PCB)			
Metals M8	Sydney	Jan 15, 2014	28 Day
- Method: E022 Acid Extractable metals in Soils & E026 Mercury			
Conductivity (1:5 aqueous extract at 25°C)	Sydney	Jan 15, 2014	7 Day
- Method: E032.2 Electrical Conductivity (EC)			
pH (1:5 Aqueous extract)	Sydney	Jan 15, 2014	7 Day
- Method: E018.2 pH			
% Moisture	Sydney	Jan 15, 2014	28 Day
- Method: E005 Moisture Content			
Foreign Material - Type I	Sydney	Jan 14, 2014	180 Day
- Method: RTA Method T276			
Foreign Material - Type II	Sydney	Jan 14, 2014	180 Day
- Method: RTA Method T276			
Foreign Material - Type III	Sydney	Jan 14, 2014	180 Day
- Method: RTA Method T276			

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NATA # 1261 Site # 18217

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Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: GREEN SQUARE BLOCK 19A 43182

Order No.:
Report #: 405464
Phone: 02 8245 0300
Fax:

Received: Jan 13, 2014 5:00 PM
Due: Jan 21, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Total Recoverable Hydrocarbons	Foreign Materials - ENM	JBS&G Suite 2
Laboratory where analysis is conducted														
Melbourne Laboratory - NATA Site # 1254 & 14271														
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
External Laboratory														
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**										
FC084 0.1-0.2	Jan 08, 2014		Soil	S14-Ja03678	X									X
FC084 0.5-0.7	Jan 08, 2014		Soil	S14-Ja03679			X							
FC084 1.0-1.2	Jan 08, 2014		Soil	S14-Ja03680	X				X					
FC084 1.8-2.0	Jan 08, 2014		Soil	S14-Ja03681			X							
FC084 4.5-4.7	Jan 08, 2014		Soil	S14-Ja03682	X				X	X		X		
FC085 0.2-0.3	Jan 08, 2014		Soil	S14-Ja03683	X									X
FC085 0.6-0.9	Jan 08, 2014		Soil	S14-Ja03684			X							
FC085 1.5-1.8	Jan 08, 2014		Soil	S14-Ja03685			X							
FC085 3.8-4.0	Jan 08, 2014		Soil	S14-Ja03686			X							
FC087 0.2-0.3	Jan 08, 2014		Soil	S14-Ja03687	X									X

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Laboratory where analysis is conducted														
Melbourne Laboratory - NATA Site # 1254 & 14271														
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
External Laboratory														
FC087 0.8-1.0	Jan 08, 2014		Soil	S14-Ja03688			X							
FC087 1.2-1.5	Jan 08, 2014		Soil	S14-Ja03689			X							
FC087 2.7-2.9	Jan 08, 2014		Soil	S14-Ja03690	X	X		X					X	X
FC087 4.5-4.7	Jan 08, 2014		Soil	S14-Ja03691	X				X	X	X	X		
FC088 0.2-0.3	Jan 08, 2014		Soil	S14-Ja03692			X							
FC088 0.8-1.0	Jan 08, 2014		Soil	S14-Ja03693	X				X	X		X		
FC088 1.5-1.7	Jan 08, 2014		Soil	S14-Ja03694			X							
FC088 2.2-2.4	Jan 08, 2014		Soil	S14-Ja03695	X	X		X					X	X
FC088 3.8-4.0	Jan 08, 2014		Soil	S14-Ja03696			X							

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH C6-C10 less BTEX (F1)	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-BHC	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-BHC	mg/kg	< 0.05			0.05	Pass	
d-BHC	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-BHC (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.2			0.2	Pass	
Toxaphene	mg/kg	< 1			1	Pass	
Method Blank							
Polychlorinated Biphenyls (PCB)							
Aroclor-1016	mg/kg	< 0.5			0.5	Pass	
Aroclor-1232	mg/kg	< 0.5			0.5	Pass	
Aroclor-1242	mg/kg	< 0.5			0.5	Pass	
Aroclor-1248	mg/kg	< 0.5			0.5	Pass	
Aroclor-1254	mg/kg	< 0.5			0.5	Pass	
Aroclor-1260	mg/kg	< 0.5			0.5	Pass	
Total PCB	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	97			70-130	Pass	
TRH C10-C14	%	75			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	99			70-130	Pass	
Toluene	%	93			70-130	Pass	
Ethylbenzene	%	94			70-130	Pass	
m&p-Xylenes	%	94			70-130	Pass	
o-Xylene	%	102			70-130	Pass	
Xylenes - Total	%	97			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	95			70-130	Pass	
TRH C6-C10	%	99			70-130	Pass	
TRH >C10-C16	%	77			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	118			70-130	Pass	
Acenaphthylene	%	105			70-130	Pass	
Anthracene	%	122			70-130	Pass	
Benz(a)anthracene	%	117			70-130	Pass	
Benzo(a)pyrene	%	109			70-130	Pass	
Benzo(b&j)fluoranthene	%	107			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Benzo(g.h.i)perylene	%	99			70-130	Pass	
Benzo(k)fluoranthene	%	119			70-130	Pass	
Chrysene	%	117			70-130	Pass	
Dibenz(a.h)anthracene	%	86			70-130	Pass	
Fluoranthene	%	119			70-130	Pass	
Fluorene	%	123			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	95			70-130	Pass	
Naphthalene	%	120			70-130	Pass	
Phenanthrene	%	110			70-130	Pass	
Pyrene	%	116			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	102			70-130	Pass	
4.4'-DDE	%	113			70-130	Pass	
4.4'-DDT	%	112			70-130	Pass	
a-BHC	%	105			70-130	Pass	
Aldrin	%	105			70-130	Pass	
b-BHC	%	109			70-130	Pass	
d-BHC	%	105			70-130	Pass	
Dieldrin	%	104			70-130	Pass	
Endosulfan I	%	104			70-130	Pass	
Endosulfan II	%	107			70-130	Pass	
Endosulfan sulphate	%	103			70-130	Pass	
Endrin	%	104			70-130	Pass	
Endrin aldehyde	%	107			70-130	Pass	
Endrin ketone	%	109			70-130	Pass	
g-BHC (Lindane)	%	103			70-130	Pass	
Heptachlor	%	99			70-130	Pass	
Heptachlor epoxide	%	103			70-130	Pass	
Hexachlorobenzene	%	80			70-130	Pass	
Methoxychlor	%	116			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls (PCB)							
Aroclor-1260	%	106			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	89			70-130	Pass	
Cadmium	%	88			70-130	Pass	
Chromium	%	94			70-130	Pass	
Copper	%	99			70-130	Pass	
Lead	%	93			70-130	Pass	
Nickel	%	97			70-130	Pass	
Zinc	%	102			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S14-Ja03678	CP	%	88			70-130	Pass	
TRH C10-C14	S14-Ja03678	CP	%	83			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S14-Ja03678	CP	%	96			70-130	Pass	
Toluene	S14-Ja03678	CP	%	91			70-130	Pass	
Ethylbenzene	S14-Ja03678	CP	%	91			70-130	Pass	
m&p-Xylenes	S14-Ja03678	CP	%	90			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
o-Xylene	S14-Ja03678	CP	%	99			70-130	Pass	
Xylenes - Total	S14-Ja03678	CP	%	93			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S14-Ja03678	CP	%	114			70-130	Pass	
TRH C6-C10	S14-Ja03678	CP	%	87			70-130	Pass	
TRH >C10-C16	S14-Ja03678	CP	%	84			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S14-Ja03678	CP	%	121			70-130	Pass	
Acenaphthylene	S14-Ja03678	CP	%	111			70-130	Pass	
Anthracene	S14-Ja03678	CP	%	121			70-130	Pass	
Benz(a)anthracene	S14-Ja03678	CP	%	121			70-130	Pass	
Benzo(a)pyrene	S14-Ja03678	CP	%	123			70-130	Pass	
Benzo(b&j)fluoranthene	S14-Ja03678	CP	%	123			70-130	Pass	
Benzo(g.h.i)perylene	S14-Ja03678	CP	%	110			70-130	Pass	
Benzo(k)fluoranthene	S14-Ja03678	CP	%	117			70-130	Pass	
Chrysene	S14-Ja03678	CP	%	125			70-130	Pass	
Dibenz(a.h)anthracene	S14-Ja03678	CP	%	99			70-130	Pass	
Fluoranthene	S14-Ja03678	CP	%	125			70-130	Pass	
Fluorene	S14-Ja03678	CP	%	125			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja03678	CP	%	108			70-130	Pass	
Naphthalene	S14-Ja03678	CP	%	114			70-130	Pass	
Phenanthrene	S14-Ja03678	CP	%	119			70-130	Pass	
Pyrene	S14-Ja03678	CP	%	124			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls (PCB)				Result 1					
Aroclor-1260	S14-Ja03678	CP	%	108			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S14-Ja03678	CP	%	97			70-130	Pass	
Cadmium	S14-Ja03678	CP	%	97			70-130	Pass	
Chromium	S14-Ja03678	CP	%	107			70-130	Pass	
Copper	S14-Ja03581	NCP	%	127			70-130	Pass	
Lead	S14-Ja03581	NCP	%	75			70-130	Pass	
Mercury	S14-Ja03678	CP	%	89			70-130	Pass	
Nickel	S14-Ja03678	CP	%	104			70-130	Pass	
Zinc	S14-Ja03678	CP	%	73			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S14-Ja03678	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S14-Ja03678	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S14-Ja03678	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S14-Ja03678	CP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S14-Ja03678	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S14-Ja03678	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S14-Ja03678	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S14-Ja03678	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S14-Ja03678	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total	S14-Ja03678	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	

Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S14-Ja03678	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S14-Ja03678	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S14-Ja03678	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S14-Ja03678	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S14-Ja03678	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S14-Ja03678	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S14-Ja03678	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S14-Ja03678	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S14-Ja03678	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S14-Ja03678	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S14-Ja03678	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S14-Ja03678	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S14-Ja03678	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S14-Ja03678	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S14-Ja03678	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S14-Ja03678	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S14-Ja03678	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S14-Ja03678	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja03678	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S14-Ja03678	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S14-Ja03678	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S14-Ja03678	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S14-Ja03678	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S14-Ja03678	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S14-Ja03678	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S14-Ja03678	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	S14-Ja03678	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S14-Ja03678	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	S14-Ja03678	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-BHC	S14-Ja03678	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S14-Ja03678	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S14-Ja03678	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S14-Ja03678	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S14-Ja03678	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S14-Ja03678	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S14-Ja03678	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S14-Ja03678	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	S14-Ja03678	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S14-Ja03678	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S14-Ja03678	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S14-Ja03678	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S14-Ja03678	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Toxaphene	S14-Ja03678	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls (PCB)				Result 1	Result 2	RPD			
Aroclor-1016	S14-Ja03678	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1232	S14-Ja03678	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1242	S14-Ja03678	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1248	S14-Ja03678	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1254	S14-Ja03678	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1260	S14-Ja03678	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S14-Ja03678	CP	mg/kg	4.3	5.0	15	30%	Pass	
Cadmium	S14-Ja03678	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S14-Ja03678	CP	mg/kg	21	34	48	30%	Fail	Q15
Copper	S14-Ja03678	CP	mg/kg	38	50	28	30%	Pass	
Lead	S14-Ja03678	CP	mg/kg	43	45	5.0	30%	Pass	
Mercury	S14-Ja03678	CP	mg/kg	0.08	0.10	21	30%	Pass	
Nickel	S14-Ja03678	CP	mg/kg	33	46	35	30%	Fail	Q15
Zinc	S14-Ja03678	CP	mg/kg	90	120	26	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Conductivity (1:5 aqueous extract at 25°C)	S14-Ja03516	NCP	uS/cm	63	63	<1	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q15	The RPD reported passes Eurofins | mgt's Acceptance Criteria as stipulated in SOP 05. Refer to Glossary Page of this report for further details

Authorised By

Jean Heng	Client Services
Bob Symons	Senior Analyst-Inorganic (NSW)
James Norford	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)
Ryan Hamilton	Senior Analyst-Volatile (NSW)

Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

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eurofins | mgt
Unit F3-F6 Building F, Parkview Building
16 Mars Road, Lane Cove West
NSW 2066

CHAIN OF CUSTODY

#405464

JBS&G

PROJECT NO.: 47382
PROJECT NAME: Green Square Block 19A
SEND REPORT TO: N Cussen SEND INVOICE TO: Grace Ng
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: Chris D
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: NCussen@jbsg.com.au
QC LEVEL: NEPM (2013)

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	JBS&G SPECIFIC SUITES: JB1	JB1T	JB1A	JB2	JB2A	B10	JB2/JBL	JB3/JBL	JB4	JBL	8 Metals	TPH	PAH	OCP	VOCs	pH	EC	CEC			NOTES:
FC084 0.1-0.2	soil	8/1/14		Ice + Ice					x																	
FC084 0.5-0.7																										
FC084 1.0-1.2																		x								
FC084 1.8-2.0																										
FC084 4.5-4.7																x	x	x								
FC085 0.2-0.3									x																	
FC085 0.6-0.9																										
FC085 1.5-1.8																										
FC085 3.8-4.0																										
FC087 0.2-0.3									x																	
FC087 0.8-1.0																										
FC087 1.2-1.5																										
FC087 2.7-2.9				+ 6Kg Dry					x												x	x	x			
FC087 4.5-4.7																x	x	x	x							
FC088 0.2-0.3																										
FC088 0.8-1.0																x	x	x								
FC088 1.5-1.7																										
FC088 2.2-2.4				+ 6Kg Dry					x												x	x	x			
FC088 3.8-4.0	↓	↓		↓ + 6Kg Dry																						

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Nathan DATE: 6/1/14	CONSIGNMENT NOTE NO.	NAME: Ethan WG 130114	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: OF: EF/mgt 17:00	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - eurofins mgt

JB1 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1T - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos
JB2 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
B10 - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2/JBL - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)
JB3/JBL - TRH/BTEX/PAH/OCP/OPP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)/Asbestos
JB4 - TRH/BTEX/VOC
JBL - TCLP(PAH & 6 Metals)

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

TAX INVOICE

INVOICE NO: SY 110630
INVOICING DATE: 16/01/14
ENVIROLAB REPORT NO: 103463
PAYMENT DUE DATE: 15/02/2014

To: JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney NSW 2000

Attention: Grace Ng

PROJECT NO and DESCRIPTION: 43182, Green Square Block 19A

PURCHASE ORDER NUMBER:

Tests Performed / Description of Service	Unit Cost	Qty	Total Cost
Asbestos ID - soils WA	$78.00	7	$546.00
Admin Fee	$25.00	1	$25.00
10% batch discount	-$54.60	1	-$54.60
Samples on Hold	$3.00	12	$36.00
Invoice and GST Summary Details	**Total Amount:**		$552.40
	GST (10%):		$55.24
	Total Invoice Amount:		$607.64

INVOICE PAYMENT OPTIONS

Please make all cheques payable to : **Envirolab Services Pty Ltd**

Please EFT to: **Account Name: Envirolab Services Pty Ltd**
NAB SWIFT Code - NATAAU3303M
Bank: National Australia Bank Branch: Marrickville NSW
BSB: 082 356 Account No: 57981 3018

Remittance advices should be faxed/emailed Fax No: 02 9910 6299 e-mail: accounts@envirolabservices.com.au

Visa and Mastercard payments are accepted.

PLEASE NOTE: OUR PAYMENT TERMS ARE STRICTLY 30 DAYS FROM DATE OF INVOICE

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

CERTIFICATE OF ANALYSIS 103463

Client:

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention: Joanne Rosner, Nathan Cussen

Sample log in details:

Your Reference:	**43182, Green Square Block 19A**
No. of samples:	19 soils
Date samples received / completed instructions received	14/01/14 / 14/01/14

Analysis Details:

Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by: / Issue Date:	21/01/14 / 16/01/14
Date of Preliminary Report:	Not Issued

NATA accreditation number 2901. This document shall not be reproduced except in full.
Accredited for compliance with ISO/IEC 17025. **Tests not covered by NATA are denoted with *.**

Results Approved By:

Jacinta Hurst
Laboratory Manager

Asbestos ID - soils WA						
Our Reference:	UNITS	103463-3	103463-5	103463-6	103463-10	103463-13
Your Reference	----------	FC084	FC084	FC085	FC087	FC087
Depth	----------	1.0-1.2	4.5-4.7	0.2-0.3	0.2-0.3	2.7-2.9
Date Sampled		08/01/2014	08/01/2014	08/01/2014	08/01/2014	08/01/2014
Type of sample		soil	soil	soil	soil	soil
Date analysed	-	15/01/2014	15/01/2014	15/01/2014	15/01/2014	15/01/2014
Sample mass tested	g	463.62g	578.69g	567.62g	619.96g	658.12g
Sample Description	-	Grey fine-grained soil & rocks	Grey fine-grained soil & rocks	Grey fine-grained soil & rocks	Brown fine-grained soil & rocks	Beige fine-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected

Asbestos ID - soils WA			
Our Reference:	UNITS	103463-16	103463-18
Your Reference	----------	FC088	FC088
Depth	----------	0.8-1.0	2.2-2.4
Date Sampled		08/01/2014	08/01/2014
Type of sample		soil	soil
Date analysed	-	15/01/2014	15/01/2014
Sample mass tested	g	738.09g	776.92g
Sample Description	-	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected	No respirable fibres detected

Method ID	Methodology Summary
ASB-003	Asbestos ID - Minimum 500mL soil sample was analysed as recommended by "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.1g/kg as per AS4964-2004.

Report Comments:

This report is consistent with the analytical procedures and reporting recommendations in the Western Australian Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009.

Asbestos ID was analysed by Approved Identifier:	Matt Mansfield
Asbestos ID was authorised by Approved Signatory:	Matt Mansfield

INS: Insufficient sample for this test	PQL: Practical Quantitation Limit	NT: Not tested
NA: Test not required	RPD: Relative Percent Difference	NA: Test not required
<: Less than	>: Greater than	LCS: Laboratory Control Sample

Quality Control Definitions

Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

Duplicate: This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

Matrix Spike : A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

LCS (Laboratory Control Sample) : This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Surrogate Spike: Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.
Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.
Spikes for Physical and Aggregate Tests are not applicable.
For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.
Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for SVOC and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

12 Ashley Street
Chatswood
NSW 2067

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square Block 19A
SEND REPORT TO: N Cussen SEND INVOICE TO: Grace Ng
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: Chris B
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: ncussen@jbsg.com.au
QC LEVEL: NEPM (2013)

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	COMBO SUITES: SOIL - 4	SOIL – 4L	SOIL – 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER – 1m	WATER – 2L	WATER – 3L	Asbestos (DA)	NOTES:
1	FC084 0.1 – 0.2	Soil	8/1/14		Bag 500 ml													
2	FC084 0.5 – 0.7																	
3	FC084 1.0 – 1.2																	
4	FC084 1.8 – 2.0																	
5	FC084 4.5 – 4.7															X		
6	FC085 0.2 – 0.3																	
7	FC085 0.6 – 0.9															X		
8	FC085 1.5 – 1.8															X		
9	FC085 3.8 – 4.0																	
10	FC087 0.2 – 0.3																	
11	FC087 0.8 – 1.0																	
12	FC087 1.2 – 1.5															X		
13	FC087 2.7 – 2.9																	
14	FC087 4.5 – 4.7																	
15	FC088 0.2 – 0.3															X		
16	FC088 0.8 – 1.0																	
17	FC088 1.5 – 1.7																	
18	FC088 2.2 – 2.4															X		

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 103463
Date Received: 14/1/14
Time Received: 9:00
Received by: [illegible]
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

RELINQUISHED BY:
NAME: Nathan DATE: 10 01 2014
OF: JBS&G
NAME: DATE:
OF:

METHOD OF SHIPMENT:
CONSIGNMENT NOTE NO.
TRANSPORT CO.
CONSIGNMENT NOTE NO.
TRANSPORT CO

RECEIVED BY:
NAME: Keith Wong
DATE: 14/1/14 9:00
OF: ALS
NAME: DATE:
OF:

FOR RECEIVING LAB USE ONLY:
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Envirolab

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

Envirolab Services Pty Ltd
12 Ashley Street
Chatswood
NSW 2067

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square Block 19 A
SEND REPORT TO: N Cussen SEND INVOICE TO: Emma Ng
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: Chris B
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: ncussen@jbsg.com.au
QC LEVEL: NEPM (2013)

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	COMBO SUITES: SOIL - 4	SOIL – 4L	SOIL – 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER – 1m	WATER – 2L	WATER – 3L	NOTES:
19 FC088 3.8-4.0	Soil	8/1/14		Bag												

RELINQUISHED BY:
NAME: Nathan DATE: 10 01 2014
OF: JBS&G
NAME: DATE:
OF:

METHOD OF SHIPMENT:
CONSIGNMENT NOTE NO.
TRANSPORT CO.
CONSIGNMENT NOTE NO.
TRANSPORT CO

RECEIVED BY:
NAME:
DATE:
OF:
NAME: DATE:
OF:

FOR RECEIVING LAB USE ONLY:
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO Forms013 – Chain of Custody - Envirolab

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

PICKFORD & RHYDER CONSULTING PTY LTD
ABN 17 105 546 076
Occupational Hygiene Measurements and Solutions.

PO Box 1422 Lane Cove 1595
Rear - 244 Burns Bay Road
Lane Cove NSW Australia
Phone: (02) 9418 9151
Fax: (02) 9418 9150

21 January 2014

N. Cussen
JBS&G (NSW & WA) Pty Ltd
Level 1
50 Margaret Street
SYDNEY NSW 2000

Email: ncussen@jbsg.com.au,

CERTIFICATE OF ANALYSIS – ASBESTOS IDENTIFICATION

YOUR REFERENCE/JOB No: 43182
TYPE OF SAMPLES: Bulk sample - as received from Envirolab Services
SITE LOCATION: Green Square, Block 18
DATE SAMPLED: 15 January 2014 **DATE RECEIVED:** 17 January 2014
OUR REFERENCE: 77826-ID

TEST METHOD: Soil samples examined by Stereomicroscopy and Polarized Light Microscopy (with Dispersion Staining) in accordance with AS 4964-2004: - 'Method for the qualitative identification of asbestos in bulk samples' as outlined in Laboratory Method ID/1. The Reporting Limit for the results in this Certificate is numerically equal to the lowest detection limit of 0.1 g/kg. Trace asbestos analysis has been conducted on each sample, which is generally designed to detect 'respirable' asbestos fibres (ie less than 3 micrometres in width) distributed throughout the sample.

Sample No	*Lab No*	*Sample Information*	*Analysis Result*	*Description*
QC18-A	77826	Soil sample as received	No asbestos detected	The sample was a grey soil with stones, of total approximate weight 891 g, in which organic fibres were detected in the +2 mm and -2mm fraction. No asbestos fibres were detected in the +2 mm fraction. No asbestos fibres were detected in a representative sub-sample of the –2 mm fraction. No asbestos fibres were found at the Reporting Limit of 0.1g/kg.

All sampling and site work has been undertaken by the client - the analytical procedures and results reported on this Certificate have been conducted by Pickford & Rhyder Consulting.

Sampling is not covered by the scope of accreditation.

Analysed and reported by:

Gary Conaty,
Approved Identifier and Signatory.

NATA
ACCREDITED FOR TECHNICAL COMPETENCE

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Accreditation number 2515

Envirolab Services Pty Ltd
12 Ashley Street
Chatswood
NSW 2067

For PaR

Page 1 of 1

77826

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square Block 18
SEND REPORT TO: N Cussen SEND INVOICE TO: G Ng
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

PaR

LABORATORY BATCH NO.:
SAMPLERS: Ellen
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: ncussen@jbsg.com.au

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	COMBO SUITES: SOIL - 4	SOIL - 4L	SOIL - 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER – 1m	WATER – 2L	WATER – 3L	Asbestos	NOTES:
QC18-A	Soil	15.1.14		Bag												+	

RELINQUISHED BY:
NAME: Natha DATE: 16.1.14
OF: JBS&G
NAME: DATE: 17/1/14
OF:

METHOD OF SHIPMENT:
CONSIGNMENT NOTE NO.
TRANSPORT CO.
CONSIGNMENT NOTE NO.
TRANSPORT CO

RECEIVED BY:
NAME: KUMO PENSHAW DATE: 17.1.14 0900
OF: PICKFORD
NAME: DATE:
OF:

FOR RECEIVING LAB USE ONLY:
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Envirolab

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

eurofins | mgt

ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

Melbourne
3-5 Kingston Town Close
Oakleigh Vic 3166
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F6, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Sample Receipt Advice

Company name: **JBS & G (NSW & WA) Pty Ltd**

Contact name: Nathan Cussen
Client job number: ADDITIONAL: GREEN SQUARE BLOCK 18 43182
COC number: Not provided
Turn around time: 5 Day
Date/Time received: Jan 23, 2014 10:07 AM
Eurofins | mgt reference: **406432**

Sample information

☑ A detailed list of analytes logged into our LIMS, is included in the attached summary table.

☑ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt Sample Receipt : 11 degrees Celsius.

☑ All samples have been received as described on the above COC.

☑ COC has been completed correctly.

☑ Attempt to chill was evident.

☑ Appropriately preserved sample containers have been used.

☑ All samples were received in good condition.

☑ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.

☑ Organic samples had Teflon liners.

☒ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Notes

Additional from report 405819.

Contact notes

If you have any questions with respect to these samples please contact:

Jean Heng on Phone : (+61) (2) 9900 8400 or by e.mail: JeanHeng@eurofins.com.au

Results will be delivered electronically via e.mail to Nathan Cussen - ncussen@jbsg.com.au.

Eurofins | mgt Sample Receipt

eurofins | mgt

ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

Melbourne
3-5 Kingston Town Close
Oakleigh VIC 3166
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F6, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: ADDITIONAL: GREEN SQUARE BLOCK 18 43182

Order No.:
Report #: 406432
Phone: 02 8245 0300
Fax:

Received: Jan 23, 2014 10:07 AM
Due: Jan 31, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Lead	Polycyclic Aromatic Hydrocarbons	Toxicity Characteristic Leaching Procedure (TCLP)	Metals M8
Laboratory where analysis is conducted									
Melbourne Laboratory - NATA Site # 1254 & 14271									
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794									
External Laboratory									
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**					
FC069 6.0-6.1	Jan 15, 2014		TCLP	S14-Ja10858	X		X	X	
FC069 8.0-8.1	Jan 15, 2014		TCLP	S14-Ja10859	X		X	X	
FC071 6.0-6.1	Jan 15, 2014		TCLP	S14-Ja10860	X		X	X	X
FC072 6.0-6.1	Jan 15, 2014		TCLP	S14-Ja10861	X	X		X	

eurofins | mgt

Certificate of Analysis

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Nathan Cussen**

Report **406432-L**
Client Reference ADDITIONAL: GREEN SQUARE BLOCK 18 43182
Received Date Jan 23, 2014

Client Sample ID **Sample Matrix** **Eurofins | mgt Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**FC069 6.0-6.1** **TCLP** **S14-Ja10858** **Jan 15, 2014**	**FC069 8.0-8.1** **TCLP** **S14-Ja10859** **Jan 15, 2014**	**FC071 6.0-6.1** **TCLP** **S14-Ja10860** **Jan 15, 2014**	**FC072 6.0-6.1** **TCLP** **S14-Ja10861** **Jan 15, 2014**
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.001	mg/L	0.003	0.002	< 0.001	-
Acenaphthylene	0.001	mg/L	0.001	< 0.001	< 0.001	-
Anthracene	0.001	mg/L	0.003	< 0.001	< 0.001	-
Benz(a)anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Benzo(a)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Benzo(g.h.i)perylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Benzo(k)fluoranthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Chrysene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Dibenz(a.h)anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Fluoranthene	0.001	mg/L	0.005	< 0.001	< 0.001	-
Fluorene	0.001	mg/L	0.003	0.001	< 0.001	-
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Naphthalene	0.001	mg/L	0.004	< 0.001	< 0.001	-
Phenanthrene	0.001	mg/L	0.014	0.004	< 0.001	-
Pyrene	0.001	mg/L	0.004	< 0.001	< 0.001	-
Total PAH	0.002	mg/L	0.037	0.007	< 0.001	-
2-Fluorobiphenyl (surr.)	1	%	100	80	71	-
p-Terphenyl-d14 (surr.)	1	%	121	105	89	-
Heavy Metals						
Arsenic	0.01	mg/L	-	-	< 0.01	-
Cadmium	0.005	mg/L	-	-	< 0.005	-
Chromium	0.05	mg/L	-	-	< 0.05	-
Copper	0.05	mg/L	-	-	< 0.05	-
Lead	0.01	mg/L	-	-	0.26	0.01
Mercury	0.001	mg/L	-	-	< 0.001	-
Nickel	0.05	mg/L	-	-	< 0.05	-
Zinc	0.05	mg/L	-	-	0.37	-
% Moisture	0.1	%	14	21	18	22
Toxicity Characteristic Leaching Procedure (TCLP)						
Leachate Fluid[C01]		comment	1.0	1.0	1.0	1.0
pH (TCLP - HCl addition)	0.1	units	1.8	1.8	1.7	1.8
pH (TCLP - initial)	0.1	units	8.0	8.3	8.6	8.5
pH (TCLP - off)	0.1	units	5.1	5.0	5.2	6.1

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Polycyclic Aromatic Hydrocarbons	Sydney	Jan 28, 2014	7 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Metals M8	Sydney	Jan 24, 2014	28 Day
- Method: E022 Acid Extractable metals in Soils & E026 Mercury			
Heavy Metals	Sydney	Jan 24, 2014	180 Day
- Method: E022 Acid Extractable metals in Soils			
% Moisture	Sydney	Jan 24, 2014	0 Day
- Method: E005 Moisture Content			
Toxicity Characteristic Leaching Procedure (TCLP)	Sydney	Jan 24, 2014	0 Day
- Method: E019 TCLP Preparation			

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NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: ADDITIONAL: GREEN SQUARE BLOCK 18 43182

Order No.:
Report #: 406432
Phone: 02 8245 0300
Fax:

Received: Jan 23, 2014 10:07 AM
Due: Jan 31, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Lead	Polycyclic Aromatic Hydrocarbons	Toxicity Characteristic Leaching Procedure (TCLP)	Metals M8
Laboratory where analysis is conducted									
Melbourne Laboratory - NATA Site # 1254 & 14271									
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794									
External Laboratory									
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**					
FC069 6.0-6.1	Jan 15, 2014		TCLP	S14-Ja10858	X		X	X	
FC069 8.0-8.1	Jan 15, 2014		TCLP	S14-Ja10859	X		X	X	
FC071 6.0-6.1	Jan 15, 2014		TCLP	S14-Ja10860	X		X	X	X
FC072 6.0-6.1	Jan 15, 2014		TCLP	S14-Ja10861	X	X		X	

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

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Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/L	< 0.001			0.001	Pass	
Acenaphthylene	mg/L	< 0.001			0.001	Pass	
Anthracene	mg/L	< 0.001			0.001	Pass	
Benz(a)anthracene	mg/L	< 0.001			0.001	Pass	
Benzo(a)pyrene	mg/L	< 0.001			0.001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.001			0.001	Pass	
Benzo(g.h.i)perylene	mg/L	< 0.001			0.001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.001			0.001	Pass	
Chrysene	mg/L	< 0.001			0.001	Pass	
Dibenz(a.h)anthracene	mg/L	< 0.001			0.001	Pass	
Fluoranthene	mg/L	< 0.001			0.001	Pass	
Fluorene	mg/L	< 0.001			0.001	Pass	
Indeno(1.2.3-cd)pyrene	mg/L	< 0.001			0.001	Pass	
Naphthalene	mg/L	< 0.001			0.001	Pass	
Phenanthrene	mg/L	< 0.001			0.001	Pass	
Pyrene	mg/L	< 0.001			0.001	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.01			0.01	Pass	
Cadmium	mg/L	< 0.005			0.005	Pass	
Chromium	mg/L	< 0.05			0.05	Pass	
Copper	mg/L	< 0.05			0.05	Pass	
Lead	mg/L	< 0.01			0.01	Pass	
Mercury	mg/L	< 0.001			0.001	Pass	
Nickel	mg/L	< 0.05			0.05	Pass	
Zinc	mg/L	< 0.05			0.05	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S14-Ja10859	CP	%	76			70-130	Pass	
Acenaphthylene	S14-Ja10859	CP	%	71			70-130	Pass	
Anthracene	S14-Ja10859	CP	%	77			70-130	Pass	
Benz(a)anthracene	S14-Ja10859	CP	%	71			70-130	Pass	
Benzo(a)pyrene	S14-Ja10859	CP	%	75			70-130	Pass	
Benzo(b&j)fluoranthene	S14-Ja10859	CP	%	79			70-130	Pass	
Benzo(g.h.i)perylene	S14-Ja10859	CP	%	75			70-130	Pass	
Benzo(k)fluoranthene	S14-Ja10859	CP	%	73			70-130	Pass	
Chrysene	S14-Ja10859	CP	%	72			70-130	Pass	
Dibenz(a.h)anthracene	S14-Ja10859	CP	%	78			70-130	Pass	
Fluoranthene	S14-Ja10859	CP	%	76			70-130	Pass	
Fluorene	S14-Ja10859	CP	%	77			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja10859	CP	%	77			70-130	Pass	
Naphthalene	S14-Ja10859	CP	%	73			70-130	Pass	
Phenanthrene	S14-Ja10859	CP	%	83			70-130	Pass	
Pyrene	S14-Ja10859	CP	%	77			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S14-Ja10856	NCP	%	96			70-130	Pass	
Cadmium	S14-Ja10856	NCP	%	97			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Chromium	S14-Ja10856	NCP	%	93			70-130	Pass	
Copper	S14-Ja10856	NCP	%	90			70-130	Pass	
Lead	S14-Ja10856	NCP	%	89			70-130	Pass	
Mercury	S14-Ja10856	NCP	%	97			70-130	Pass	
Nickel	S14-Ja10856	NCP	%	90			70-130	Pass	
Zinc	S14-Ja10856	NCP	%	91			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S14-Ja10858	CP	mg/L	0.003	0.003	6.0	30%	Pass	
Acenaphthylene	S14-Ja10858	CP	mg/L	0.001	< 0.001	1.0	30%	Pass	
Anthracene	S14-Ja10858	CP	mg/L	0.003	0.003	6.0	30%	Pass	
Benz(a)anthracene	S14-Ja10858	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(a)pyrene	S14-Ja10858	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(b&j)fluoranthene	S14-Ja10858	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(g.h.i)perylene	S14-Ja10858	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(k)fluoranthene	S14-Ja10858	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chrysene	S14-Ja10858	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibenz(a.h)anthracene	S14-Ja10858	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluoranthene	S14-Ja10858	CP	mg/L	0.005	0.005	4.0	30%	Pass	
Fluorene	S14-Ja10858	CP	mg/L	0.003	0.003	8.0	30%	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja10858	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Naphthalene	S14-Ja10858	CP	mg/L	0.004	0.004	5.0	30%	Pass	
Phenanthrene	S14-Ja10858	CP	mg/L	0.014	0.013	3.0	30%	Pass	
Pyrene	S14-Ja10858	CP	mg/L	0.004	0.004	4.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S14-Ja10855	NCP	mg/L	3.9	< 0.01	22	30%	Pass	
Cadmium	S14-Ja10855	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Chromium	S14-Ja10855	NCP	mg/L	14	< 0.05	7.0	30%	Pass	
Copper	S14-Ja10855	NCP	mg/L	38	< 0.05	1.0	30%	Pass	
Lead	S14-Ja10855	NCP	mg/L	110	0.064	1.0	30%	Pass	
Mercury	S14-Ja10855	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Nickel	S14-Ja10855	NCP	mg/L	5.8	< 0.05	1.0	30%	Pass	
Zinc	S14-Ja10855	NCP	mg/L	110	0.50	1.0	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
C01	Leachate Fluid Key: 1 - pH 5.0, 2 - pH 2.9, 3 - pH 9.2, 4 - Reagent (DI) water, 5 - Client sample, 6 - other
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs

Authorised By

Jean Heng	Client Services
James Norford	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)

Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

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jasmine 23/01/2014 10:15 am

#406432

From: Nathan Cussen [mailto:NCussen@jbsg.com.au]
Sent: Thursday, 23 January 2014 10:07 AM
To: Jean Heng
Subject: Lab Batch 405819 - Green Square Block 18

Hi Jean,

Could I please schedule the following TCLP analysis:

- FC069 6.0-6.1 PAH
- FC069 8.0-8.1 PAH
- FC071 6.0-6.1 PAH & METALS
- FC072 6.0-6.1 LEAD

Cheers,
Nathan

Nathan Cussen | Senior Environmental Consultant| JBS&G
Sydney | Melbourne | Adelaide | Perth | Brisbane
Level 1, 50 Margaret Street, Sydney NSW 2000
T: 02 8245 0300 | M: 0431 401 022| www.jbsg.com.au
Contaminated Land | Groundwater Remediation | Auditing and Compliance | Assessments and Approvals | Occupational Hygiene and Monitoring

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Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Sample Receipt Advice

Company name: **JBS & G (NSW & WA) Pty Ltd**

Contact name: Nathan Cussen
Client job number: ADDITIONAL: GREEN SQUARE BLOCK 18 43182
COC number: Not provided
Turn around time: 5 Day
Date/Time received: Jan 22, 2014 9:55 AM
Eurofins | mgt reference: **406249**

Sample information

☑ A detailed list of analytes logged into our LIMS, is included in the attached summary table.

☑ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt Sample Receipt : 7 degrees Celsius.

☑ All samples have been received as described on the above COC.

☑ COC has been completed correctly.

☑ Attempt to chill was evident.

☑ Appropriately preserved sample containers have been used.

☑ All samples were received in good condition.

☑ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.

☑ Organic samples had Teflon liners.

☒ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Notes

Additional from 405454

Contact notes

If you have any questions with respect to these samples please contact:

Jean Heng on Phone : (+61) (2) 9900 8400 or by e.mail: JeanHeng@eurofins.com.au

Results will be delivered electronically via e.mail to Nathan Cussen - ncussen@jbsg.com.au.

Eurofins | mgt Sample Receipt

eurofins | mgt

ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

Melbourne
3-5 Kingston Town Close
Oakleigh VIC 3166
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NATA # 1261
Site # 1254 & 14271

Sydney
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Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Order No.:
Report #: 406249
Phone: 02 8245 0300
Fax:

Received: Jan 22, 2014 9:55 AM
Due: Jan 30, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Client Job No.: ADDITIONAL: GREEN SQUARE BLOCK 18 43182

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Polycyclic Aromatic Hydrocarbons	Toxicity Characteristic Leaching Procedure (TCLP)	Metals M8
Laboratory where analysis is conducted								
Melbourne Laboratory - NATA Site # 1254 & 14271								
Sydney Laboratory - NATA Site # 18217					X	X	X	X
Brisbane Laboratory - NATA Site # 20794								
External Laboratory								
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**				
FC070 0.1-0.2	Jan 09, 2014		TCLP	S14-Ja09744	X	X	X	X
FC071 0.5-0.8	Jan 09, 2014		TCLP	S14-Ja09745	X	X	X	X
FC070 0.5-0.6	Jan 09, 2014		TCLP	S14-Ja09746	X	X	X	X
FC071 2.8-3.0	Jan 09, 2014		TCLP	S14-Ja09747	X		X	X
FC071 4.8-5.0	Jan 09, 2014		TCLP	S14-Ja09748	X	X	X	X

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Certificate of Analysis

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Nathan Cussen**

Report **406249-L**
Client Reference ADDITIONAL: GREEN SQUARE BLOCK 18 43182
Received Date Jan 22, 2014

Client Sample ID **Sample Matrix** **Eurofins | mgt Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**FC070 0.1-0.2** **TCLP** **S14-Ja09744** **Jan 09, 2014**	**FC071 0.5-0.8** **TCLP** **S14-Ja09745** **Jan 09, 2014**	**FC070 0.5-0.6** **TCLP** **S14-Ja09746** **Jan 09, 2014**	**FC071 2.8-3.0** **TCLP** **S14-Ja09747** **Jan 09, 2014**
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Acenaphthylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Benz(a)anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Benzo(a)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Benzo(g.h.i)perylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Benzo(k)fluoranthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Chrysene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Dibenz(a.h)anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Fluoranthene	0.001	mg/L	0.003	0.002	< 0.001	-
Fluorene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Naphthalene	0.001	mg/L	0.017	0.002	< 0.001	-
Phenanthrene	0.001	mg/L	0.003	0.003	< 0.001	-
Pyrene	0.001	mg/L	0.003	0.002	< 0.001	-
Total PAH	0.002	mg/L	0.026	0.009	< 0.001	-
2-Fluorobiphenyl (surr.)	1	%	129	97	121	-
p-Terphenyl-d14 (surr.)	1	%	125	101	122	-
Heavy Metals						
Arsenic	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Cadmium	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Chromium	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
Copper	0.05	mg/L	0.06	< 0.05	0.08	< 0.05
Lead	0.01	mg/L	0.05	0.19	1.2	2.8
Mercury	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Nickel	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
Zinc	0.05	mg/L	1.3	0.34	1.7	0.52
% Moisture	0.1	%	21	12	21	10
Toxicity Characteristic Leaching Procedure (TCLP)						
Leachate Fluid[C01]		comment	1.0	1.0	1.0	1.0
pH (TCLP - HCl addition)	0.1	units	1.8	1.7	1.8	1.8
pH (TCLP - initial)	0.1	units	7.4	7.1	7.5	8.9
pH (TCLP - off)	0.1	units	5.2	5.3	5.1	6.2

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC071 4.8-5.0 TCLP S14-Ja09748 Jan 09, 2014
Polycyclic Aromatic Hydrocarbons			
Acenaphthene	0.001	mg/L	0.002
Acenaphthylene	0.001	mg/L	0.001
Anthracene	0.001	mg/L	< 0.001
Benz(a)anthracene	0.001	mg/L	< 0.001
Benzo(a)pyrene	0.001	mg/L	< 0.001
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	< 0.001
Benzo(g.h.i)perylene	0.001	mg/L	< 0.001
Benzo(k)fluoranthene	0.001	mg/L	< 0.001
Chrysene	0.001	mg/L	< 0.001
Dibenz(a.h)anthracene	0.001	mg/L	< 0.001
Fluoranthene	0.001	mg/L	0.002
Fluorene	0.001	mg/L	0.002
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001
Naphthalene	0.001	mg/L	0.002
Phenanthrene	0.001	mg/L	0.003
Pyrene	0.001	mg/L	0.001
Total PAH	0.002	mg/L	0.013
2-Fluorobiphenyl (surr.)	1	%	110
p-Terphenyl-d14 (surr.)	1	%	125
Heavy Metals			
Arsenic	0.01	mg/L	< 0.01
Cadmium	0.005	mg/L	< 0.005
Chromium	0.05	mg/L	< 0.05
Copper	0.05	mg/L	< 0.05
Lead	0.01	mg/L	0.73
Mercury	0.001	mg/L	< 0.001
Nickel	0.05	mg/L	< 0.05
Zinc	0.05	mg/L	0.76
% Moisture	0.1	%	12
Toxicity Characteristic Leaching Procedure (TCLP)			
Leachate Fluid[C01]		comment	1.0
pH (TCLP - HCl addition)	0.1	units	1.8
pH (TCLP - initial)	0.1	units	8.9
pH (TCLP - off)	0.1	units	6.2

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Polycyclic Aromatic Hydrocarbons	Sydney	Jan 24, 2014	7 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Metals M8	Sydney	Jan 23, 2014	28 Day
- Method: E022 Acid Extractable metals in Soils & E026 Mercury			
% Moisture	Sydney	Jan 23, 2014	0 Day
- Method: E005 Moisture Content			
Toxicity Characteristic Leaching Procedure (TCLP)	Sydney	Jan 23, 2014	0 Day
- Method: E019 TCLP Preparation			

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Site # 1254 & 14271

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Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name:	JBS & G (NSW & WA) Pty Ltd	**Order No.:**		**Received:**	Jan 22, 2014 9:55 AM
Address:	Level 1, 50 Margaret St Sydney NSW 2000	**Report #:**	406249	**Due:**	Jan 30, 2014
		Phone:	02 8245 0300	**Priority:**	5 Day
		Fax:		**Contact Name:**	Nathan Cussen
Client Job No.:	ADDITIONAL: GREEN SQUARE BLOCK 18 43182				

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Polycyclic Aromatic Hydrocarbons	Toxicity Characteristic Leaching Procedure (TCLP)	Metals M8
Laboratory where analysis is conducted								
Melbourne Laboratory - NATA Site # 1254 & 14271								
Sydney Laboratory - NATA Site # 18217					X	X	X	X
Brisbane Laboratory - NATA Site # 20794								
External Laboratory								
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**				
FC070 0.1-0.2	Jan 09, 2014		TCLP	S14-Ja09744	X	X	X	X
FC071 0.5-0.8	Jan 09, 2014		TCLP	S14-Ja09745	X	X	X	X
FC070 0.5-0.6	Jan 09, 2014		TCLP	S14-Ja09746	X	X	X	X
FC071 2.8-3.0	Jan 09, 2014		TCLP	S14-Ja09747	X		X	X
FC071 4.8-5.0	Jan 09, 2014		TCLP	S14-Ja09748	X	X	X	X

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/L	< 0.001			0.001	Pass	
Acenaphthylene	mg/L	< 0.001			0.001	Pass	
Anthracene	mg/L	< 0.001			0.001	Pass	
Benz(a)anthracene	mg/L	< 0.001			0.001	Pass	
Benzo(a)pyrene	mg/L	< 0.001			0.001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.001			0.001	Pass	
Benzo(g.h.i)perylene	mg/L	< 0.001			0.001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.001			0.001	Pass	
Chrysene	mg/L	< 0.001			0.001	Pass	
Dibenz(a.h)anthracene	mg/L	< 0.001			0.001	Pass	
Fluoranthene	mg/L	< 0.001			0.001	Pass	
Fluorene	mg/L	< 0.001			0.001	Pass	
Indeno(1.2.3-cd)pyrene	mg/L	< 0.001			0.001	Pass	
Naphthalene	mg/L	< 0.001			0.001	Pass	
Phenanthrene	mg/L	< 0.001			0.001	Pass	
Pyrene	mg/L	< 0.001			0.001	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.01			0.01	Pass	
Cadmium	mg/L	< 0.005			0.005	Pass	
Chromium	mg/L	< 0.05			0.05	Pass	
Copper	mg/L	< 0.05			0.05	Pass	
Lead	mg/L	< 0.01			0.01	Pass	
Mercury	mg/L	< 0.001			0.001	Pass	
Nickel	mg/L	< 0.05			0.05	Pass	
Zinc	mg/L	< 0.05			0.05	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S14-Ja09745	CP	%	118			70-130	Pass	
Acenaphthylene	S14-Ja09745	CP	%	110			70-130	Pass	
Anthracene	S14-Ja09745	CP	%	115			70-130	Pass	
Benz(a)anthracene	S14-Ja09745	CP	%	109			70-130	Pass	
Benzo(a)pyrene	S14-Ja09745	CP	%	123			70-130	Pass	
Benzo(b&j)fluoranthene	S14-Ja09745	CP	%	111			70-130	Pass	
Benzo(g.h.i)perylene	S14-Ja09745	CP	%	102			70-130	Pass	
Benzo(k)fluoranthene	S14-Ja09745	CP	%	123			70-130	Pass	
Chrysene	S14-Ja09745	CP	%	120			70-130	Pass	
Dibenz(a.h)anthracene	S14-Ja09745	CP	%	101			70-130	Pass	
Fluoranthene	S14-Ja09745	CP	%	126			70-130	Pass	
Fluorene	S14-Ja09745	CP	%	120			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja09745	CP	%	108			70-130	Pass	
Naphthalene	S14-Ja09745	CP	%	129			70-130	Pass	
Phenanthrene	S14-Ja09745	CP	%	123			70-130	Pass	
Pyrene	S14-Ja09745	CP	%	127			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S14-Ja09745	CP	%	103			70-130	Pass	
Cadmium	S14-Ja09745	CP	%	102			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Chromium	S14-Ja09745	CP	%	97			70-130	Pass	
Copper	S14-Ja09745	CP	%	95			70-130	Pass	
Lead	S14-Ja09745	CP	%	95			70-130	Pass	
Mercury	S14-Ja09745	CP	%	103			70-130	Pass	
Nickel	S14-Ja09745	CP	%	95			70-130	Pass	
Zinc	S14-Ja09745	CP	%	97			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S14-Ja09744	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Acenaphthylene	S14-Ja09744	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Anthracene	S14-Ja09744	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benz(a)anthracene	S14-Ja09744	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(a)pyrene	S14-Ja09744	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(b&j)fluoranthene	S14-Ja09744	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(g.h.i)perylene	S14-Ja09744	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(k)fluoranthene	S14-Ja09744	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chrysene	S14-Ja09744	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibenz(a.h)anthracene	S14-Ja09744	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluoranthene	S14-Ja09744	CP	mg/L	0.003	0.003	14	30%	Pass	
Fluorene	S14-Ja09744	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja09744	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Naphthalene	S14-Ja09744	CP	mg/L	0.017	0.017	1.0	30%	Pass	
Phenanthrene	S14-Ja09744	CP	mg/L	0.003	0.003	9.0	30%	Pass	
Pyrene	S14-Ja09744	CP	mg/L	0.003	0.003	13	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S14-Ja09744	CP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Cadmium	S14-Ja09744	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Chromium	S14-Ja09744	CP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Copper	S14-Ja09744	CP	mg/L	0.06	0.06	5.0	30%	Pass	
Lead	S14-Ja09744	CP	mg/L	0.05	0.04	5.0	30%	Pass	
Mercury	S14-Ja09744	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Nickel	S14-Ja09744	CP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Zinc	S14-Ja09744	CP	mg/L	1.3	1.3	4.0	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
C01	Leachate Fluid Key: 1 - pH 5.0, 2 - pH 2.9, 3 - pH 9.2, 4 - Reagent (DI) water, 5 - Client sample, 6 - other
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs

Authorised By

Jean Heng	Client Services
James Norford	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)

Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

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From: Nathan Cussen [mailto:NCussen@jbsg.com.au]
Sent: Wednesday, 22 January 2014 9:55 AM
To: Jean Heng
Subject: Lab Batch 405454 - Green Square 43182 Block 18

Second last request. Sorry for the email dump.

Could I please schedule the following TCLPs

- FC070 0.1-0.2 PAH/METALS
- FC071 0.5-0.8 PAH/METALS
- FC070 0.5-0.6 PAH/METALS
- FC071 2.8-3.0 METALS
- FC071 4.8-5.0 PAH/METALS

GHD # 406249

Cheers
Nathan

Nathan Cussen | Senior Environmental Consultant| JBS&G
Sydney | Melbourne | Adelaide | Perth | Brisbane
Level 1, 50 Margaret Street, Sydney NSW 2000
T: 02 8245 0300 | M: 0431 401 022| www.jbsg.com.au
Contaminated Land | Groundwater Remediation | Auditing and Compliance | Assessments and Approvals | **Occupational Hygiene and Monitoring**

If you would like to send through large electronic files (>25MB), please use JBS&G's secure internet-based file delivery system located at http://dropbox.yousendit.com/JBSG. Place `Nathan Cussen - Sydney in the subject.
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Site # 1254 & 14271

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Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Sample Receipt Advice

Company name: **JBS & G (NSW & WA) Pty Ltd**

Contact name: Nathan Cussen
Client job number: GREEN SQUARE BLOCK 18 43182
COC number: Not provided
Turn around time: 5 Day
Date/Time received: Jan 16, 2014 3:20 PM
Eurofins | mgt reference: **405819**

Sample information

☑ A detailed list of analytes logged into our LIMS, is included in the attached summary table.

☑ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt Sample Receipt : 11 degrees Celsius.

☑ All samples have been received as described on the above COC.

☑ COC has been completed correctly.

☑ Attempt to chill was evident.

☑ Appropriately preserved sample containers have been used.

☑ All samples were received in good condition.

☑ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.

☑ Organic samples had Teflon liners.

☒ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Contact notes

If you have any questions with respect to these samples please contact:

Jean Heng on Phone : (+61) (2) 9900 8400 or by e.mail: JeanHeng@eurofins.com.au

Results will be delivered electronically via e.mail to Nathan Cussen - ncussen@jbsg.com.au.

Eurofins | mgt Sample Receipt

eurofins | mgt

ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

Melbourne
3-5 Kingston Town Close
Oakleigh VIC 3166
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NATA # 1261
Site # 1254 & 14271

Sydney
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Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: GREEN SQUARE BLOCK 18 43182

Order No.:
Report #: 405819
Phone: 02 8245 0300
Fax:

Received: Jan 16, 2014 3:20 PM
Due: Jan 23, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	Total Recoverable Hydrocarbons	Volatile Organics
Laboratory where analysis is conducted												
Melbourne Laboratory - NATA Site # 1254 & 14271												
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794												
External Laboratory												
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**								
FC069 6.0-6.1	Jan 15, 2014		Soil	S14-Ja06768	X	X		X	X	X	X	
FC069 7.0-7.1	Jan 15, 2014		Soil	S14-Ja06769			X					
FC069 8.0-8.1	Jan 15, 2014		Soil	S14-Ja06770	X				X	X	X	
FC070 6.0-6.1	Jan 15, 2014		Soil	S14-Ja06771	X	X		X	X	X	X	
FC071 6.0-6.1	Jan 15, 2014		Soil	S14-Ja06772	X	X		X	X	X	X	
FC071 7.0-7.1	Jan 15, 2014		Soil	S14-Ja06773			X					
FC071 8.0-8.1	Jan 15, 2014		Soil	S14-Ja06774	X	X		X		X	X	X
FC071 9.0-9.1	Jan 15, 2014		Soil	S14-Ja06775			X					
FC072 6.0-6.1	Jan 15, 2014		Soil	S14-Ja06776	X				X	X	X	
QC18	Jan 15, 2014		Soil	S14-Ja06777	X				X	X	X	

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Certificate of Analysis

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention: **Nathan Cussen**

Report **405819-S**
Client Reference GREEN SQUARE BLOCK 18 43182
Received Date Jan 16, 2014

Client Sample ID			**FC069 6.0-6.1**	**FC069 8.0-8.1**	**FC070 6.0-6.1**	**FC071 6.0-6.1**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**S14-Ja06768**	**S14-Ja06770**	**S14-Ja06771**	**S14-Ja06772**
Date Sampled			**Jan 15, 2014**	**Jan 15, 2014**	**Jan 15, 2014**	**Jan 15, 2014**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	640	99	< 50	100
TRH C29-C36	50	mg/kg	390	92	< 50	82
TRH C10-36 (Total)	50	mg/kg	1000	190	< 50	180
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	1000	180	< 100	180
TRH >C34-C40	100	mg/kg	190	< 100	< 100	< 100
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	1.0	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	5.0	1.1	< 0.5	0.7
Anthracene	0.5	mg/kg	13	1.9	< 0.5	1.9
Benz(a)anthracene	0.5	mg/kg	23	3.7	< 0.5	4.1
Benzo(a)pyrene	0.5	mg/kg	19	3.3	< 0.5	4.0
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	11	2.2	< 0.5	2.7
Benzo(g.h.i)perylene	0.5	mg/kg	8.6	1.4	< 0.5	1.9
Benzo(k)fluoranthene	0.5	mg/kg	18	3.1	< 0.5	4.2
Chrysene	0.5	mg/kg	19	3.2	< 0.5	3.7
Dibenz(a.h)anthracene	0.5	mg/kg	2.7	< 0.5	< 0.5	0.6
Fluoranthene	0.5	mg/kg	45	6.9	< 0.5	7.8
Fluorene	0.5	mg/kg	4.4	0.5	< 0.5	0.7
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	8.5	1.4	< 0.5	1.8
Naphthalene	0.5	mg/kg	2.7	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	39	4.9	< 0.5	5.4
Pyrene	0.5	mg/kg	40	6.6	< 0.5	7.5
Total PAH	0.5	mg/kg	260	40	< 0.5	47
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	28	4.4	< 0.5	5.9
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	28	4.6	0.6	5.9
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	28	4.9	1.2	5.9
2-Fluorobiphenyl (surr.)	1	%	101	100	94	98
p-Terphenyl-d14 (surr.)	1	%	114	107	95	104

Client Sample ID			FC069 6.0-6.1	FC069 8.0-8.1	FC070 6.0-6.1	FC071 6.0-6.1
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**S14-Ja06768**	**S14-Ja06770**	**S14-Ja06771**	**S14-Ja06772**
Date Sampled			**Jan 15, 2014**	**Jan 15, 2014**	**Jan 15, 2014**	**Jan 15, 2014**
Test/Reference	LOR	Unit				
Conductivity (1:5 aqueous extract at 25°C)	5	uS/cm	230	-	71	440
pH (1:5 Aqueous extract)	0.1	units	8.3	-	7.2	8.0
% Moisture	0.1	%	12	21	21	18
Heavy Metals						
Arsenic	2	mg/kg	7.1	< 2	3.0	6.7
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	39	130	15	38
Copper	5	mg/kg	24	22	< 5	41
Lead	5	mg/kg	99	51	12	160
Mercury	0.05	mg/kg	0.11	0.26	< 0.05	0.23
Nickel	5	mg/kg	12	< 5	< 5	6.3
Zinc	5	mg/kg	49	64	27	78

Client Sample ID			FC071 8.0-8.1	FC072 6.0-6.1	QC18
Sample Matrix			**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**S14-Ja06774**	**S14-Ja06776**	**S14-Ja06777**
Date Sampled			**Jan 15, 2014**	**Jan 15, 2014**	**Jan 15, 2014**
Test/Reference	LOR	Unit			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions					
TRH C6-C9	20	mg/kg	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	67	< 50
TRH C10-36 (Total)	50	mg/kg	< 50	67	< 50
Total Recoverable Hydrocarbons - 2013 NEPM Fractions					
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	110	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100
Volatile Organics					
1.1-Dichloroethane	0.05	mg/kg	< 0.05	-	-
1.1-Dichloroethene	0.05	mg/kg	< 0.05	-	-
1.1.1-Trichloroethane	0.05	mg/kg	< 0.05	-	-
1.1.1.2-Tetrachloroethane	0.05	mg/kg	< 0.05	-	-
1.1.2-Trichloroethane	0.05	mg/kg	< 0.05	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-
1.2-Dibromoethane	0.05	mg/kg	< 0.05	-	-
1.2-Dichlorobenzene	0.05	mg/kg	< 0.05	-	-
1.2-Dichloroethane	0.05	mg/kg	< 0.05	-	-
1.2-Dichloropropane	0.05	mg/kg	< 0.05	-	-
1.2.3-Trichloropropane	0.05	mg/kg	< 0.05	-	-
1.2.4-Trimethylbenzene	0.05	mg/kg	< 0.05	-	-
1.3-Dichlorobenzene	0.05	mg/kg	< 0.05	-	-
1.3-Dichloropropane	0.05	mg/kg	< 0.05	-	-
1.3.5-Trimethylbenzene	0.05	mg/kg	< 0.05	-	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC071 8.0-8.1 Soil S14-Ja06774 Jan 15, 2014	FC072 6.0-6.1 Soil S14-Ja06776 Jan 15, 2014	QC18 Soil S14-Ja06777 Jan 15, 2014
Volatile Organics					
1.4-Dichlorobenzene	0.05	mg/kg	< 0.05	-	-
2-Butanone (MEK)	0.05	mg/kg	< 0.05	-	-
4-Chlorotoluene	0.05	mg/kg	< 0.05	-	-
4-Methyl-2-pentanone (MIBK)	0.05	mg/kg	< 0.05	-	-
Benzene	0.1	mg/kg	< 0.1	-	-
Bromobenzene	0.05	mg/kg	< 0.05	-	-
Bromochloromethane	0.05	mg/kg	< 0.05	-	-
Bromodichloromethane	0.05	mg/kg	< 0.05	-	-
Bromoform	0.05	mg/kg	< 0.05	-	-
Bromomethane	0.05	mg/kg	< 0.05	-	-
Carbon disulfide	0.05	mg/kg	< 0.05	-	-
Carbon Tetrachloride	0.05	mg/kg	< 0.05	-	-
Chlorobenzene	0.05	mg/kg	< 0.05	-	-
Chloroethane	0.05	mg/kg	< 0.05	-	-
Chloroform	0.05	mg/kg	< 0.05	-	-
Chloromethane	0.05	mg/kg	< 0.05	-	-
cis-1.2-Dichloroethene	0.05	mg/kg	< 0.05	-	-
cis-1.3-Dichloropropene	0.05	mg/kg	< 0.05	-	-
Dibromochloromethane	0.05	mg/kg	< 0.05	-	-
Dibromomethane	0.5	mg/kg	< 0.5	-	-
Dichlorodifluoromethane	0.05	mg/kg	< 0.05	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-
Iodomethane	0.05	mg/kg	< 0.05	-	-
Isopropyl benzene (Cumene)	0.05	mg/kg	< 0.05	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-
Methylene Chloride	0.05	mg/kg	< 0.05	-	-
o-Xylene	0.1	mg/kg	< 0.1	-	-
Styrene	0.05	mg/kg	< 0.05	-	-
Tetrachloroethene	0.05	mg/kg	< 0.05	-	-
Toluene	0.1	mg/kg	< 0.1	-	-
trans-1.2-Dichloroethene	0.05	mg/kg	< 0.05	-	-
trans-1.3-Dichloropropene	0.05	mg/kg	< 0.05	-	-
Trichloroethene	0.05	mg/kg	< 0.05	-	-
Trichlorofluoromethane	0.05	mg/kg	< 0.05	-	-
Vinyl chloride	0.05	mg/kg	< 0.05	-	-
Xylenes - Total	0.3	mg/kg	< 0.3	-	-
4-Bromofluorobenzene (surr.)	1	%	122	-	-
Polycyclic Aromatic Hydrocarbons					
Acenaphthene	0.5	mg/kg	-	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	-	< 0.5	< 0.5
Anthracene	0.5	mg/kg	-	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	0.6	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	0.5	< 0.5
Chrysene	0.5	mg/kg	-	0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	-	1.0	< 0.5

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC071 8.0-8.1 Soil S14-Ja06774 Jan 15, 2014	FC072 6.0-6.1 Soil S14-Ja06776 Jan 15, 2014	QC18 Soil S14-Ja06777 Jan 15, 2014
Polycyclic Aromatic Hydrocarbons					
Fluorene	0.5	mg/kg	-	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	-	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	-	0.6	< 0.5
Pyrene	0.5	mg/kg	-	0.9	< 0.5
Total PAH	0.5	mg/kg	-	4.6	< 0.5
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	-	0.6	< 0.5
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	-	0.9	0.6
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	-	1.2	1.2
2-Fluorobiphenyl (surr.)	1	%	-	95	98
p-Terphenyl-d14 (surr.)	1	%	-	95	99
Conductivity (1:5 aqueous extract at 25°C)	5	uS/cm	310	-	-
pH (1:5 Aqueous extract)	0.1	units	7.7	-	-
% Moisture	0.1	%	17	22	21
Heavy Metals					
Arsenic	2	mg/kg	4.3	5.2	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	42	33	25
Copper	5	mg/kg	18	22	< 5
Lead	5	mg/kg	97	110	19
Mercury	0.05	mg/kg	0.12	0.27	< 0.05
Nickel	5	mg/kg	< 5	< 5	< 5
Zinc	5	mg/kg	43	130	72

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Jan 22, 2014	14 Day
- Method: E004 Petroleum Hydrocarbons (TPH)			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jan 22, 2014	14 Day
- Method: LM-LTM-ORG2010			
Volatile Organics	Sydney	Jan 22, 2014	7 Day
- Method: E016 Volatile Organic Compounds (VOC)			
Polycyclic Aromatic Hydrocarbons	Sydney	Jan 21, 2014	14 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Conductivity (1:5 aqueous extract at 25°C)	Sydney	Jan 21, 2014	7 Day
- Method: E032.2 Electrical Conductivity (EC)			
pH (1:5 Aqueous extract)	Sydney	Jan 21, 2014	7 Day
- Method: E018.2 pH			
% Moisture	Sydney	Jan 20, 2014	28 Day
- Method: E005 Moisture Content			
Metals M8	Sydney	Jan 20, 2014	28 Day
- Method: E022 Acid Extractable metals in Soils & E026 Mercury			

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Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
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NSW 2000

Client Job No.: GREEN SQUARE BLOCK 18 43182

Order No.:
Report #: 405819
Phone: 02 8245 0300
Fax:

Received: Jan 16, 2014 3:20 PM
Due: Jan 23, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	Total Recoverable Hydrocarbons	Volatile Organics
Laboratory where analysis is conducted												
Melbourne Laboratory - NATA Site # 1254 & 14271												
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794												
External Laboratory												
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**								
FC069 6.0-6.1	Jan 15, 2014		Soil	S14-Ja06768	X	X		X	X	X	X	
FC069 7.0-7.1	Jan 15, 2014		Soil	S14-Ja06769			X					
FC069 8.0-8.1	Jan 15, 2014		Soil	S14-Ja06770	X				X	X	X	
FC070 6.0-6.1	Jan 15, 2014		Soil	S14-Ja06771	X	X		X	X	X	X	
FC071 6.0-6.1	Jan 15, 2014		Soil	S14-Ja06772	X	X		X	X	X	X	
FC071 7.0-7.1	Jan 15, 2014		Soil	S14-Ja06773			X					
FC071 8.0-8.1	Jan 15, 2014		Soil	S14-Ja06774	X	X		X		X	X	X
FC071 9.0-9.1	Jan 15, 2014		Soil	S14-Ja06775			X					
FC072 6.0-6.1	Jan 15, 2014		Soil	S14-Ja06776	X				X	X	X	
QC18	Jan 15, 2014		Soil	S14-Ja06777	X				X	X	X	

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH C6-C10 less BTEX (F1)	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/kg	< 0.05			0.05	Pass	
1.1-Dichloroethene	mg/kg	< 0.05			0.05	Pass	
1.1.1-Trichloroethane	mg/kg	< 0.05			0.05	Pass	
1.1.1.2-Tetrachloroethane	mg/kg	< 0.05			0.05	Pass	
1.1.2-Trichloroethane	mg/kg	< 0.05			0.05	Pass	
1.1.2.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dibromoethane	mg/kg	< 0.05			0.05	Pass	
1.2-Dichlorobenzene	mg/kg	< 0.05			0.05	Pass	
1.2-Dichloroethane	mg/kg	< 0.05			0.05	Pass	
1.2-Dichloropropane	mg/kg	< 0.05			0.05	Pass	
1.2.3-Trichloropropane	mg/kg	< 0.05			0.05	Pass	
1.2.4-Trimethylbenzene	mg/kg	< 0.05			0.05	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.05			0.05	Pass	
1.3-Dichloropropane	mg/kg	< 0.05			0.05	Pass	
1.3.5-Trimethylbenzene	mg/kg	< 0.05			0.05	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.05			0.05	Pass	
2-Butanone (MEK)	mg/kg	< 0.05			0.05	Pass	
4-Chlorotoluene	mg/kg	< 0.05			0.05	Pass	
4-Methyl-2-pentanone (MIBK)	mg/kg	< 0.05			0.05	Pass	
Benzene	mg/kg	< 0.1			0.1	Pass	
Bromobenzene	mg/kg	< 0.05			0.05	Pass	
Bromochloromethane	mg/kg	< 0.05			0.05	Pass	
Bromodichloromethane	mg/kg	< 0.05			0.05	Pass	
Bromoform	mg/kg	< 0.05			0.05	Pass	
Bromomethane	mg/kg	< 0.05			0.05	Pass	
Carbon disulfide	mg/kg	< 0.05			0.05	Pass	
Carbon Tetrachloride	mg/kg	< 0.05			0.05	Pass	
Chlorobenzene	mg/kg	< 0.05			0.05	Pass	
Chloroethane	mg/kg	< 0.05			0.05	Pass	
Chloroform	mg/kg	< 0.05			0.05	Pass	
Chloromethane	mg/kg	< 0.05			0.05	Pass	
cis-1.2-Dichloroethene	mg/kg	< 0.05			0.05	Pass	
cis-1.3-Dichloropropene	mg/kg	< 0.05			0.05	Pass	
Dibromochloromethane	mg/kg	< 0.05			0.05	Pass	
Dibromomethane	mg/kg	< 0.5			0.5	Pass	
Dichlorodifluoromethane	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
Iodomethane	mg/kg	< 0.05			0.05	Pass	
Isopropyl benzene (Cumene)	mg/kg	< 0.05			0.05	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
Methylene Chloride	mg/kg	< 0.05			0.05	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Styrene	mg/kg	< 0.05			0.05	Pass	
Tetrachloroethene	mg/kg	< 0.05			0.05	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
trans-1.2-Dichloroethene	mg/kg	< 0.05			0.05	Pass	
trans-1.3-Dichloropropene	mg/kg	< 0.05			0.05	Pass	
Trichloroethene	mg/kg	< 0.05			0.05	Pass	
Trichlorofluoromethane	mg/kg	< 0.05			0.05	Pass	
Vinyl chloride	mg/kg	< 0.05			0.05	Pass	
Xylenes - Total	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.05			0.05	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	97			70-130	Pass	
TRH C10-C14	%	72			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	83			70-130	Pass	
TRH C6-C10	%	89			70-130	Pass	
TRH >C10-C16	%	82			70-130	Pass	
LCS - % Recovery							
Volatile Organics							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
1.1-Dichloroethane	%	100			75-125	Pass	
1.1-Dichloroethene	%	106			70-130	Pass	
1.1.1-Trichloroethane	%	107			70-130	Pass	
1.1.1.2-Tetrachloroethane	%	93			70-130	Pass	
1.1.2-Trichloroethane	%	87			70-130	Pass	
1.1.2.2-Tetrachloroethane	%	91			70-130	Pass	
1.2-Dibromoethane	%	88			70-130	Pass	
1.2-Dichlorobenzene	%	107			70-130	Pass	
1.2-Dichloroethane	%	89			70-130	Pass	
1.2-Dichloropropane	%	93			70-130	Pass	
1.2.3-Trichloropropane	%	104			70-130	Pass	
1.2.4-Trimethylbenzene	%	119			70-130	Pass	
1.3-Dichlorobenzene	%	113			70-130	Pass	
1.3-Dichloropropane	%	90			70-130	Pass	
1.3.5-Trimethylbenzene	%	120			70-130	Pass	
1.4-Dichlorobenzene	%	112			70-130	Pass	
2-Butanone (MEK)	%	81			70-130	Pass	
4-Chlorotoluene	%	120			70-130	Pass	
4-Methyl-2-pentanone (MIBK)	%	79			70-130	Pass	
Benzene	%	98			70-130	Pass	
Bromobenzene	%	116			70-130	Pass	
Bromochloromethane	%	95			70-130	Pass	
Bromodichloromethane	%	89			70-130	Pass	
Bromoform	%	83			70-130	Pass	
Bromomethane	%	95			70-130	Pass	
Carbon disulfide	%	100			70-130	Pass	
Carbon Tetrachloride	%	107			70-130	Pass	
Chlorobenzene	%	99			70-130	Pass	
Chloroethane	%	105			70-130	Pass	
Chloroform	%	101			70-130	Pass	
Chloromethane	%	112			70-130	Pass	
cis-1.2-Dichloroethene	%	100			70-130	Pass	
cis-1.3-Dichloropropene	%	87			70-130	Pass	
Dibromochloromethane	%	86			70-130	Pass	
Dibromomethane	%	93			70-130	Pass	
Dichlorodifluoromethane	%	103			70-130	Pass	
Ethylbenzene	%	106			70-130	Pass	
Iodomethane	%	92			75-125	Pass	
Isopropyl benzene (Cumene)	%	108			70-130	Pass	
m&p-Xylenes	%	106			70-130	Pass	
Methylene Chloride	%	102			70-130	Pass	
o-Xylene	%	103			70-130	Pass	
Styrene	%	99			70-130	Pass	
Tetrachloroethene	%	104			70-130	Pass	
Toluene	%	102			70-130	Pass	
trans-1.2-Dichloroethene	%	100			70-130	Pass	
trans-1.3-Dichloropropene	%	87			70-130	Pass	
Trichloroethene	%	98			70-130	Pass	
Trichlorofluoromethane	%	104			70-130	Pass	
Vinyl chloride	%	115			70-130	Pass	
Xylenes - Total	%	97			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	124			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Acenaphthylene	%	122			70-130	Pass	
Anthracene	%	122			70-130	Pass	
Benz(a)anthracene	%	120			70-130	Pass	
Benzo(a)pyrene	%	123			70-130	Pass	
Benzo(b&j)fluoranthene	%	117			70-130	Pass	
Benzo(g.h.i)perylene	%	91			70-130	Pass	
Benzo(k)fluoranthene	%	123			70-130	Pass	
Chrysene	%	124			70-130	Pass	
Dibenz(a.h)anthracene	%	108			70-130	Pass	
Fluoranthene	%	125			70-130	Pass	
Fluorene	%	120			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	105			70-130	Pass	
Naphthalene	%	124			70-130	Pass	
Phenanthrene	%	119			70-130	Pass	
Pyrene	%	123			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	91			70-130	Pass	
Cadmium	%	91			70-130	Pass	
Chromium	%	97			70-130	Pass	
Copper	%	107			70-130	Pass	
Lead	%	96			70-130	Pass	
Mercury	%	76			70-130	Pass	
Nickel	%	100			70-130	Pass	
Zinc	%	93			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S14-Ja05683	NCP	%	92			70-130	Pass	
TRH C10-C14	S14-Ja05038	NCP	%	79			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S14-Ja05683	NCP	%	81			70-130	Pass	
TRH C6-C10	S14-Ja05683	NCP	%	86			70-130	Pass	
TRH >C10-C16	S14-Ja05038	NCP	%	89			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S14-Ja06831	NCP	%	124			70-130	Pass	
Acenaphthylene	S14-Ja06831	NCP	%	121			70-130	Pass	
Anthracene	S14-Ja06831	NCP	%	117			70-130	Pass	
Benz(a)anthracene	S14-Ja06831	NCP	%	124			70-130	Pass	
Benzo(a)pyrene	S14-Ja06831	NCP	%	119			70-130	Pass	
Benzo(b&j)fluoranthene	S14-Ja06831	NCP	%	117			70-130	Pass	
Benzo(g.h.i)perylene	S14-Ja06831	NCP	%	91			70-130	Pass	
Benzo(k)fluoranthene	S14-Ja06831	NCP	%	112			70-130	Pass	
Chrysene	S14-Ja06831	NCP	%	125			70-130	Pass	
Dibenz(a.h)anthracene	S14-Ja06831	NCP	%	106			70-130	Pass	
Fluoranthene	S14-Ja06831	NCP	%	125			70-130	Pass	
Fluorene	S14-Ja06831	NCP	%	120			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja06831	NCP	%	103			70-130	Pass	
Naphthalene	S14-Ja06831	NCP	%	125			70-130	Pass	
Phenanthrene	S14-Ja06831	NCP	%	121			70-130	Pass	
Pyrene	S14-Ja06831	NCP	%	123			70-130	Pass	
Spike - % Recovery									

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Heavy Metals				Result 1					
Arsenic	S14-Ja07553	NCP	%	74			70-130	Pass	
Cadmium	S14-Ja07553	NCP	%	96			70-130	Pass	
Chromium	S14-Ja07553	NCP	%	99			70-130	Pass	
Copper	S14-Ja07553	NCP	%	108			70-130	Pass	
Lead	S14-Ja07553	NCP	%	93			70-130	Pass	
Mercury	S14-Ja07553	NCP	%	82			70-130	Pass	
Nickel	S14-Ja07553	NCP	%	98			70-130	Pass	
Zinc	S14-Ja07553	NCP	%	81			70-130	Pass	
Spike - % Recovery									
Volatile Organics				Result 1					
1.1-Dichloroethane	S14-Ja07760	NCP	%	96			75-125	Pass	
1.1-Dichloroethene	S14-Ja07760	NCP	%	98			70-130	Pass	
1.1.1-Trichloroethane	S14-Ja07760	NCP	%	100			70-130	Pass	
1.1.1.2-Tetrachloroethane	S14-Ja07760	NCP	%	95			70-130	Pass	
1.1.2-Trichloroethane	S14-Ja07760	NCP	%	101			70-130	Pass	
1.1.2.2-Tetrachloroethane	S14-Ja07760	NCP	%	106			70-130	Pass	
1.2-Dibromoethane	S14-Ja07760	NCP	%	102			70-130	Pass	
1.2-Dichlorobenzene	S14-Ja07760	NCP	%	109			70-130	Pass	
1.2-Dichloroethane	S14-Ja07760	NCP	%	100			70-130	Pass	
1.2-Dichloropropane	S14-Ja07760	NCP	%	98			70-130	Pass	
1.2.3-Trichloropropane	S14-Ja07760	NCP	%	116			70-130	Pass	
1.2.4-Trimethylbenzene	S14-Ja07760	NCP	%	112			70-130	Pass	
1.3-Dichlorobenzene	S14-Ja07760	NCP	%	112			70-130	Pass	
1.3-Dichloropropane	S14-Ja07760	NCP	%	104			70-130	Pass	
1.3.5-Trimethylbenzene	S14-Ja07760	NCP	%	114			70-130	Pass	
1.4-Dichlorobenzene	S14-Ja07760	NCP	%	112			70-130	Pass	
2-Butanone (MEK)	S14-Ja07760	NCP	%	99			70-130	Pass	
4-Chlorotoluene	S14-Ja07760	NCP	%	114			70-130	Pass	
4-Methyl-2-pentanone (MIBK)	S14-Ja07760	NCP	%	97			70-130	Pass	
Benzene	S14-Ja07760	NCP	%	100			70-130	Pass	
Bromobenzene	S14-Ja07760	NCP	%	114			70-130	Pass	
Bromochloromethane	S14-Ja07760	NCP	%	97			70-130	Pass	
Bromodichloromethane	S14-Ja07760	NCP	%	96			70-130	Pass	
Bromoform	S14-Ja07760	NCP	%	87			70-130	Pass	
Bromomethane	S14-Ja07760	NCP	%	92			70-130	Pass	
Carbon disulfide	S14-Ja07760	NCP	%	84			70-130	Pass	
Carbon Tetrachloride	S14-Ja07760	NCP	%	98			70-130	Pass	
Chlorobenzene	S14-Ja07760	NCP	%	99			70-130	Pass	
Chloroethane	S14-Ja07760	NCP	%	99			70-130	Pass	
Chloroform	S14-Ja07760	NCP	%	101			70-130	Pass	
Chloromethane	S14-Ja07760	NCP	%	86			70-130	Pass	
cis-1.2-Dichloroethene	S14-Ja07760	NCP	%	99			70-130	Pass	
cis-1.3-Dichloropropene	S14-Ja07760	NCP	%	93			70-130	Pass	
Dibromochloromethane	S14-Ja07760	NCP	%	94			70-130	Pass	
Dibromomethane	S14-Ja07760	NCP	%	100			70-130	Pass	
Dichlorodifluoromethane	S14-Ja07760	NCP	%	91			70-130	Pass	
Ethylbenzene	S14-Ja07760	NCP	%	102			70-130	Pass	
Iodomethane	S14-Ja07760	NCP	%	92			75-125	Pass	
Isopropyl benzene (Cumene)	S14-Ja07760	NCP	%	102			70-130	Pass	
m&p-Xylenes	S14-Ja07760	NCP	%	103			70-130	Pass	
Methylene Chloride	S14-Ja07760	NCP	%	108			70-130	Pass	
o-Xylene	S14-Ja07760	NCP	%	101			70-130	Pass	
Styrene	S14-Ja07760	NCP	%	101			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Tetrachloroethene	S14-Ja07760	NCP	%	106			70-130	Pass	
Toluene	S14-Ja07760	NCP	%	105			70-130	Pass	
trans-1.2-Dichloroethene	S14-Ja07760	NCP	%	95			70-130	Pass	
trans-1.3-Dichloropropene	S14-Ja07760	NCP	%	93			70-130	Pass	
Trichloroethene	S14-Ja07760	NCP	%	100			70-130	Pass	
Trichlorofluoromethane	S14-Ja07760	NCP	%	97			70-130	Pass	
Vinyl chloride	S14-Ja07760	NCP	%	104			70-130	Pass	
Xylenes - Total	S14-Ja05683	NCP	%	85			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S14-Ja05683	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S14-Ja05038	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S14-Ja05038	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S14-Ja05038	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S14-Ja05683	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S14-Ja05683	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S14-Ja05683	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S14-Ja05038	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S14-Ja05038	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S14-Ja05038	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S14-Ja06831	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S14-Ja06831	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S14-Ja06831	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S14-Ja06831	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S14-Ja06831	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S14-Ja06831	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S14-Ja06831	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S14-Ja06831	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S14-Ja06831	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S14-Ja06831	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S14-Ja06831	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S14-Ja06831	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja06831	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S14-Ja06831	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S14-Ja06831	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S14-Ja06831	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S14-Ja07553	NCP	mg/kg	6.2	5.7	10	30%	Pass	
Cadmium	S14-Ja07553	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S14-Ja07553	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	S14-Ja07553	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
Lead	S14-Ja07553	NCP	mg/kg	13	12	7.0	30%	Pass	
Mercury	S14-Ja07553	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Nickel	S14-Ja07553	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
Zinc	S14-Ja07553	NCP	mg/kg	29	24	16	30%	Pass	

Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.1-Dichloroethene	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.1.1-Trichloroethane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.1.2-Trichloroethane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	S14-Ja07760	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromoethane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.2-Dichlorobenzene	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.2-Dichloroethane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.2-Dichloropropane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.2.3-Trichloropropane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.2.4-Trimethylbenzene	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.3-Dichlorobenzene	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.3-Dichloropropane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.3.5-Trimethylbenzene	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.4-Dichlorobenzene	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
2-Butanone (MEK)	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4-Chlorotoluene	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Benzene	S14-Ja07760	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Bromobenzene	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Bromochloromethane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Bromodichloromethane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Bromoform	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Bromomethane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Carbon disulfide	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Carbon Tetrachloride	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Chlorobenzene	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Chloroethane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Chloroform	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Chloromethane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
cis-1.2-Dichloroethene	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
cis-1.3-Dichloropropene	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dibromochloromethane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dibromomethane	S14-Ja07760	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorodifluoromethane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Ethylbenzene	S14-Ja07760	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Iodomethane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Isopropyl benzene (Cumene)	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
m&p-Xylenes	S14-Ja07760	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Methylene Chloride	S14-Ja07760	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
o-Xylene	S14-Ja07760	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Styrene	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Tetrachloroethene	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Toluene	S14-Ja07760	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
trans-1.2-Dichloroethene	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
trans-1.3-Dichloropropene	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Trichloroethene	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Trichlorofluoromethane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Vinyl chloride	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Xylenes - Total	S14-Ja05683	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Conductivity (1:5 aqueous extract at 25°C)	S14-Ja06774	CP	uS/cm	310	310	1.0	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs

Authorised By

Jean Heng	Client Services
Bob Symons	Senior Analyst-Inorganic (NSW)
James Norford	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)
Ryan Hamilton	Senior Analyst-Volatile (NSW)

Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

Eurofins | mgt shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins | mgt be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

eurofins | mgt
Unit F3-F6 Building F, Parkview Building
16 Mars Road, Lane Cove West
NSW 2066

Page 1 of 1

CHAIN OF CUSTODY

#405819

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square Block 18
SEND REPORT TO: N Cussen SEND INVOICE TO: G Ng
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: Ellen
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: ncussen@jbsg.com.au
QC LEVEL: NEPM (2013)

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	JBS&G SPECIFIC SUITES: JB1	JB1T	JB1A	JB2	JB2A	B10	JB2/JBL	JB3/JBL	JB4	JBL	8 Metals	TRH	PAH	PH	EC	VOCs	NOTES:
FC069 0.0-0.1	Soil	15.1.14		Jar + Ice												X	X	X	X	X		
FC069 7.0-7.1																						
FC069 8.0-8.1																X	X	X				
FC070 6.0-6.1																X	X	X	X	X		
FC071 6.0-6.1																X	X	X	X	X		
FC071 7.0-7.1																						
FC071 8.0-8.1																X	X		X	X	X	
FC071 9.0-9.1																						
FC072 6.0-6.1																X	X	X				
QC18																X	X	X				

RELINQUISHED BY:
NAME: NATHAN DATE: 16.01.14
OF: JBS&G

METHOD OF SHIPMENT:
CONSIGNMENT NOTE NO.
TRANSPORT CO.

RECEIVED BY:
NAME:
DATE:
OF:

FOR RECEIVING LAB USE ONLY:
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C

NAME: DATE:
OF:

CONSIGNMENT NOTE NO.
TRANSPORT CO

NAME: DATE:
OF:

COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO Forms013 - Chain of Custody - eurofins mgt

JB1 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1T - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos
JB2 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
B10 - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2/JBL - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)
JB3/JBL - TRH/BTEX/PAH/OCP/OPP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)/Asbestos
JB4 - TRH/BTEX/VOC
JBL - TCLP(PAH & 6 Metals)

RECEIVED
16 JAN 2014
BY: Sean O. 3:20

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ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

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3-5 Kingston Town Close
Oakleigh Vic 3166
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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16 Mars Road
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Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Sample Receipt Advice

Company name: **JBS & G (NSW & WA) Pty Ltd**

Contact name: Nathan Cussen
Client job number: GREEN SQUARE BLOCK 18 43182
COC number: Not provided
Turn around time: 5 Day
Date/Time received: Jan 13, 2014 5:00 PM
Eurofins | mgt reference: **405454**

Sample information

☑ A detailed list of analytes logged into our LIMS, is included in the attached summary table.

☑ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt Sample Receipt : 7 degrees Celsius.

☑ All samples have been received as described on the above COC.

☑ COC has been completed correctly.

☑ Attempt to chill was evident.

☑ Appropriately preserved sample containers have been used.

☑ All samples were received in good condition.

☑ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.

☑ Organic samples had Teflon liners.

☒ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Contact notes

If you have any questions with respect to these samples please contact:

Jean Heng on Phone : (+61) (2) 9900 8400 or by e.mail: JeanHeng@eurofins.com.au

Results will be delivered electronically via e.mail to Nathan Cussen - ncussen@jbsg.com.au.

Eurofins | mgt Sample Receipt

eurofins | mgt

ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

Melbourne
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1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: GREEN SQUARE BLOCK 18 43182

Order No.:
Report #: 405454
Phone: 02 8245 0300
Fax:

Received: Jan 13, 2014 5:00 PM
Due: Jan 21, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Total Recoverable Hydrocarbons	Foreign Materials - ENM	JBS&G Suite 2
Laboratory where analysis is conducted														
Melbourne Laboratory - NATA Site # 1254 & 14271														
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
External Laboratory														
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**										
FC070 0.1-0.2	Jan 09, 2014		Soil	S14-Ja03640	X									X
FC070 0.5-0.6	Jan 09, 2014		Soil	S14-Ja03641	X	X		X	X	X		X		
FC071 0.1-0.2	Jan 09, 2014		Soil	S14-Ja03642			X							
FC071 0.5-0.8	Jan 09, 2014		Soil	S14-Ja03643	X	X		X						X
FC071 1.8-2.0	Jan 09, 2014		Soil	S14-Ja03644			X							
FC071 2.8-3.0	Jan 09, 2014		Soil	S14-Ja03645	X	X		X						X
FC071 3.8-4.0	Jan 09, 2014		Soil	S14-Ja03646			X							
FC071 4.8-5.0	Jan 09, 2014		Soil	S14-Ja03647	X	X		X	X	X		X		
FC072 0.1-0.2	Jan 09, 2014		Soil	S14-Ja03648			X							
FC072 0.4-0.6	Jan 09, 2014		Soil	S14-Ja03649	X	X		X					X	X

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ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

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Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: GREEN SQUARE BLOCK 18 43182

Order No.:
Report #: 405454
Phone: 02 8245 0300
Fax:

Received: Jan 13, 2014 5:00 PM
Due: Jan 21, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Total Recoverable Hydrocarbons	Foreign Materials - ENM	JBS&G Suite 2
Laboratory where analysis is conducted														
Melbourne Laboratory - NATA Site # 1254 & 14271														
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
External Laboratory														
FC072 1.5-1.7	Jan 09, 2014		Soil	S14-Ja03650	X									X
FC072 2.9-3.1	Jan 09, 2014		Soil	S14-Ja03651	X				X	X	X	X		

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Certificate of Analysis

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Nathan Cussen**

Report **405454-S**
Client Reference GREEN SQUARE BLOCK 18 43182
Received Date Jan 13, 2014

Client Sample ID **Sample Matrix** **Eurofins | mgt Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**FC070 0.1-0.2** **Soil** **S14-Ja03640** **Jan 09, 2014**	**FC070 0.5-0.6** **Soil** **S14-Ja03641** **Jan 09, 2014**	**FC071 0.5-0.8** **Soil** **S14-Ja03643** **Jan 09, 2014**	**FC071 2.8-3.0** **Soil** **S14-Ja03645** **Jan 09, 2014**
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	63	86	290	< 50
TRH C29-C36	50	mg/kg	58	91	320	< 50
TRH C10-36 (Total)	50	mg/kg	120	180	610	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Xylenes - Total	0.3	mg/kg	< 0.3	-	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	90	-	83	89
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	110	160	560	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	200	< 100
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	1.4	< 0.5
Anthracene	0.5	mg/kg	1.2	0.7	2.3	< 0.5
Benz(a)anthracene	0.5	mg/kg	3.1	2.5	9.4	< 0.5
Benzo(a)pyrene	0.5	mg/kg	3.3	2.5	13	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	2.7	2.2	9.3	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	1.9	1.3	8.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	3.6	2.5	11	< 0.5
Chrysene	0.5	mg/kg	2.9	2.3	10	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	2.0	< 0.5
Fluoranthene	0.5	mg/kg	5.9	3.9	15	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	1.8	1.2	6.8	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	0.5	< 0.5

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC070 0.1-0.2 Soil S14-Ja03640 Jan 09, 2014	FC070 0.5-0.6 Soil S14-Ja03641 Jan 09, 2014	FC071 0.5-0.8 Soil S14-Ja03643 Jan 09, 2014	FC071 2.8-3.0 Soil S14-Ja03645 Jan 09, 2014
Polycyclic Aromatic Hydrocarbons						
Phenanthrene	0.5	mg/kg	4.3	1.3	6.8	< 0.5
Pyrene	0.5	mg/kg	5.7	3.9	16	< 0.5
Total PAH	0.5	mg/kg	36	24	110	< 0.5
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	4.5	3.4	19	< 0.5
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	4.7	3.7	19	0.6
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	5.0	3.9	19	1.2
2-Fluorobiphenyl (surr.)	1	%	84	83	82	83
p-Terphenyl-d14 (surr.)	1	%	92	88	90	88
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
a-BHC	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
b-BHC	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
d-BHC	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Methoxychlor	0.2	mg/kg	< 0.2	-	< 0.2	< 0.2
Toxaphene	1	mg/kg	< 1	-	< 1	< 1
Dibutylchlorendate (surr.)	1	%	103	-	116	75
Tetrachloro-m-xylene (surr.)	1	%	82	-	76	78
Polychlorinated Biphenyls (PCB)						
Aroclor-1016	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Aroclor-1232	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Aroclor-1242	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Aroclor-1248	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Aroclor-1254	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Aroclor-1260	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Total PCB	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dibutylchlorendate (surr.)	1	%	103	-	116	75
Conductivity (1:5 aqueous extract at 25°C)	5	uS/cm	-	370	350	430
pH (1:5 Aqueous extract)	0.1	units	-	7.4	8.1	8.2
% Moisture	0.1	%	17	20	14	13

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC070 0.1-0.2 Soil S14-Ja03640 Jan 09, 2014	FC070 0.5-0.6 Soil S14-Ja03641 Jan 09, 2014	FC071 0.5-0.8 Soil S14-Ja03643 Jan 09, 2014	FC071 2.8-3.0 Soil S14-Ja03645 Jan 09, 2014
Heavy Metals						
Arsenic	2	mg/kg	5.2	4.8	10	5.8
Cadmium	0.4	mg/kg	0.7	0.6	0.4	< 0.4
Chromium	5	mg/kg	7.8	8.2	8.4	< 5
Copper	5	mg/kg	140	150	120	19
Lead	5	mg/kg	350	260	300	780
Mercury	0.05	mg/kg	0.43	0.67	0.68	0.37
Nickel	5	mg/kg	10	9.9	8.3	< 5
Zinc	5	mg/kg	310	340	150	93

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC071 4.8-5.0 Soil S14-Ja03647 Jan 09, 2014	FC072 0.4-0.6 Soil S14-Ja03649 Jan 09, 2014	FC072 1.5-1.7 Soil S14-Ja03650 Jan 09, 2014	FC072 2.9-3.1 Soil S14-Ja03651 Jan 09, 2014
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	170	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	180	< 50	< 50	< 50
TRH C10-36 (Total)	50	mg/kg	350	< 50	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Xylenes - Total	0.3	mg/kg	-	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	91	84	89
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	320	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	110	< 100	< 100	< 100
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	0.8	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	1.3	< 0.5	0.6	< 0.5
Benz(a)anthracene	0.5	mg/kg	5.7	< 0.5	0.9	< 0.5
Benzo(a)pyrene	0.5	mg/kg	7.3	< 0.5	0.7	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	5.4	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	4.6	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	6.7	< 0.5	0.8	< 0.5
Chrysene	0.5	mg/kg	5.8	< 0.5	0.8	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	1.2	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	8.2	< 0.5	2.2	< 0.5

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC071 4.8-5.0 Soil S14-Ja03647 Jan 09, 2014	FC072 0.4-0.6 Soil S14-Ja03649 Jan 09, 2014	FC072 1.5-1.7 Soil S14-Ja03650 Jan 09, 2014	FC072 2.9-3.1 Soil S14-Ja03651 Jan 09, 2014
Polycyclic Aromatic Hydrocarbons						
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	3.9	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	3.6	< 0.5	1.9	< 0.5
Pyrene	0.5	mg/kg	8.6	< 0.5	1.8	< 0.5
Total PAH	0.5	mg/kg	63	< 0.5	9.7	< 0.5
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	11	< 0.5	0.9	< 0.5
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	11	0.6	1.2	0.6
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	11	1.2	1.5	1.2
2-Fluorobiphenyl (surr.)	1	%	86	85	86	85
p-Terphenyl-d14 (surr.)	1	%	92	91	92	86
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	< 0.1	-
4.4'-DDD	0.05	mg/kg	-	< 0.05	< 0.05	-
4.4'-DDE	0.05	mg/kg	-	< 0.05	< 0.05	-
4.4'-DDT	0.05	mg/kg	-	< 0.05	< 0.05	-
a-BHC	0.05	mg/kg	-	< 0.05	< 0.05	-
Aldrin	0.05	mg/kg	-	< 0.05	< 0.05	-
b-BHC	0.05	mg/kg	-	< 0.05	< 0.05	-
d-BHC	0.05	mg/kg	-	< 0.05	< 0.05	-
Dieldrin	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan I	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan II	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin ketone	0.05	mg/kg	-	< 0.05	< 0.05	-
g-BHC (Lindane)	0.05	mg/kg	-	< 0.05	< 0.05	-
Heptachlor	0.05	mg/kg	-	< 0.05	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	< 0.05	-
Methoxychlor	0.2	mg/kg	-	< 0.2	< 0.2	-
Toxaphene	1	mg/kg	-	< 1	< 1	-
Dibutylchlorendate (surr.)	1	%	-	72	84	-
Tetrachloro-m-xylene (surr.)	1	%	-	82	76	-
Polychlorinated Biphenyls (PCB)						
Aroclor-1016	0.5	mg/kg	-	< 0.5	< 0.5	-
Aroclor-1232	0.5	mg/kg	-	< 0.5	< 0.5	-
Aroclor-1242	0.5	mg/kg	-	< 0.5	< 0.5	-
Aroclor-1248	0.5	mg/kg	-	< 0.5	< 0.5	-
Aroclor-1254	0.5	mg/kg	-	< 0.5	< 0.5	-
Aroclor-1260	0.5	mg/kg	-	< 0.5	< 0.5	-
Total PCB	0.5	mg/kg	-	< 0.5	< 0.5	-
Dibutylchlorendate (surr.)	1	%	-	72	84	-
Conductivity (1:5 aqueous extract at 25°C)	5	uS/cm	440	26	-	-
pH (1:5 Aqueous extract)	0.1	units	8.2	7.9	-	-
% Moisture	0.1	%	12	19	14	18
Initial Weight	0.01	kg	-	7.6	-	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC071 4.8-5.0 Soil S14-Ja03647 Jan 09, 2014	FC072 0.4-0.6 Soil S14-Ja03649 Jan 09, 2014	FC072 1.5-1.7 Soil S14-Ja03650 Jan 09, 2014	FC072 2.9-3.1 Soil S14-Ja03651 Jan 09, 2014
Heavy Metals						
Arsenic	2	mg/kg	46	< 2	< 2	< 2
Cadmium	0.4	mg/kg	0.6	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	6.8	< 5	8.3	< 5
Copper	5	mg/kg	95	< 5	< 5	5.4
Lead	5	mg/kg	520	< 5	6.2	14
Mercury	0.05	mg/kg	1.0	< 0.05	0.17	< 0.05
Nickel	5	mg/kg	5.6	< 5	< 5	< 5
Zinc	5	mg/kg	210	< 5	7.0	5.4
Foreign Material - Type I						
Metal*	0.1	%	-	< 0.1	-	-
Glass*	0.1	%	-	< 0.1	-	-
Asphalt*	0.1	%	-	< 0.1	-	-
Stone*	0.1	%	-	< 0.1	-	-
Ceramic and slag (other than blast furnace slag)*	0.1	%	-	< 0.1	-	-
Foreign Material - Type II						
Plaster*	0.1	%	-	< 0.1	-	-
Clay lumps and other friable material*	0.1	%	-	< 0.1	-	-
Foreign Material - Type III						
Rubber*	0.05	%	-	< 0.05	-	-
Plastic*	0.05	%	-	< 0.05	-	-
Bitumen*	0.05	%	-	< 0.05	-	-
Paper*	0.05	%	-	< 0.05	-	-
Cloth*	0.05	%	-	< 0.05	-	-
Paint*	0.05	%	-	< 0.05	-	-
Wood and other vegetable matter*	0.05	%	-	< 0.05	-	-

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Jan 16, 2014	14 Day
- Method: E004 Petroleum Hydrocarbons (TPH)			
BTEX	Sydney	Jan 15, 2014	14 Day
- Method: E029/E016 BTEX			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jan 16, 2014	14 Day
- Method: LM-LTM-ORG2010			
Polycyclic Aromatic Hydrocarbons	Sydney	Jan 16, 2014	14 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Organochlorine Pesticides	Sydney	Jan 16, 2014	14 Day
- Method: E013 Organochlorine Pesticides (OC)			
Polychlorinated Biphenyls (PCB)	Sydney	Jan 16, 2014	28 Day
- Method: E013 Polychlorinated Biphenyls (PCB)			
Metals M8	Sydney	Jan 15, 2014	28 Day
- Method: E022 Acid Extractable metals in Soils & E026 Mercury			
Conductivity (1:5 aqueous extract at 25°C)	Sydney	Jan 16, 2014	7 Day
- Method: E032.2 Electrical Conductivity (EC)			
pH (1:5 Aqueous extract)	Sydney	Jan 16, 2014	7 Day
- Method: E018.2 pH			
% Moisture	Sydney	Jan 15, 2014	28 Day
- Method: E005 Moisture Content			
Foreign Material - Type I	Sydney	Jan 14, 2014	180 Day
- Method: RTA Method T276			
Foreign Material - Type II	Sydney	Jan 14, 2014	180 Day
- Method: RTA Method T276			
Foreign Material - Type III	Sydney	Jan 14, 2014	180 Day
- Method: RTA Method T276			

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Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: GREEN SQUARE BLOCK 18 43182

Order No.:
Report #: 405454
Phone: 02 8245 0300
Fax:

Received: Jan 13, 2014 5:00 PM
Due: Jan 21, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Total Recoverable Hydrocarbons	Foreign Materials - ENM	JBS&G Suite 2
Laboratory where analysis is conducted														
Melbourne Laboratory - NATA Site # 1254 & 14271														
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
External Laboratory														
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**										
FC070 0.1-0.2	Jan 09, 2014		Soil	S14-Ja03640	X									X
FC070 0.5-0.6	Jan 09, 2014		Soil	S14-Ja03641	X	X		X	X	X		X		
FC071 0.1-0.2	Jan 09, 2014		Soil	S14-Ja03642			X							
FC071 0.5-0.8	Jan 09, 2014		Soil	S14-Ja03643	X	X		X						X
FC071 1.8-2.0	Jan 09, 2014		Soil	S14-Ja03644			X							
FC071 2.8-3.0	Jan 09, 2014		Soil	S14-Ja03645	X	X		X						X
FC071 3.8-4.0	Jan 09, 2014		Soil	S14-Ja03646			X							
FC071 4.8-5.0	Jan 09, 2014		Soil	S14-Ja03647	X	X		X	X	X		X		
FC072 0.1-0.2	Jan 09, 2014		Soil	S14-Ja03648			X							
FC072 0.4-0.6	Jan 09, 2014		Soil	S14-Ja03649	X	X		X					X	X

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Laboratory where analysis is conducted														
Melbourne Laboratory - NATA Site # 1254 & 14271														
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
External Laboratory														
FC072 1.5-1.7	Jan 09, 2014		Soil	S14-Ja03650	X									X
FC072 2.9-3.1	Jan 09, 2014		Soil	S14-Ja03651	X				X	X	X	X		

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH C6-C10 less BTEX (F1)	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-BHC	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-BHC	mg/kg	< 0.05			0.05	Pass	
d-BHC	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-BHC (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.2			0.2	Pass	
Toxaphene	mg/kg	< 1			1	Pass	
Method Blank							
Polychlorinated Biphenyls (PCB)							
Aroclor-1016	mg/kg	< 0.5			0.5	Pass	
Aroclor-1232	mg/kg	< 0.5			0.5	Pass	
Aroclor-1242	mg/kg	< 0.5			0.5	Pass	
Aroclor-1248	mg/kg	< 0.5			0.5	Pass	
Aroclor-1254	mg/kg	< 0.5			0.5	Pass	
Aroclor-1260	mg/kg	< 0.5			0.5	Pass	
Total PCB	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.05			0.05	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	79			70-130	Pass	
TRH C10-C14	%	75			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	109			70-130	Pass	
Toluene	%	98			70-130	Pass	
Ethylbenzene	%	95			70-130	Pass	
m&p-Xylenes	%	97			70-130	Pass	
o-Xylene	%	98			70-130	Pass	
Xylenes - Total	%	98			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	103			70-130	Pass	
TRH C6-C10	%	72			70-130	Pass	
TRH >C10-C16	%	81			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	124			70-130	Pass	
Acenaphthylene	%	119			70-130	Pass	
Anthracene	%	122			70-130	Pass	
Benz(a)anthracene	%	116			70-130	Pass	
Benzo(a)pyrene	%	121			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Benzo(b&j)fluoranthene	%	113			70-130	Pass	
Benzo(g.h.i)perylene	%	116			70-130	Pass	
Benzo(k)fluoranthene	%	122			70-130	Pass	
Chrysene	%	125			70-130	Pass	
Dibenz(a.h)anthracene	%	124			70-130	Pass	
Fluoranthene	%	116			70-130	Pass	
Fluorene	%	125			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	124			70-130	Pass	
Naphthalene	%	120			70-130	Pass	
Phenanthrene	%	117			70-130	Pass	
Pyrene	%	115			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	87			70-130	Pass	
4.4'-DDD	%	92			70-130	Pass	
4.4'-DDE	%	89			70-130	Pass	
4.4'-DDT	%	81			70-130	Pass	
a-BHC	%	91			70-130	Pass	
Aldrin	%	89			70-130	Pass	
b-BHC	%	96			70-130	Pass	
d-BHC	%	97			70-130	Pass	
Dieldrin	%	85			70-130	Pass	
Endosulfan I	%	99			70-130	Pass	
Endosulfan II	%	85			70-130	Pass	
Endosulfan sulphate	%	85			70-130	Pass	
Endrin	%	90			70-130	Pass	
Endrin aldehyde	%	85			70-130	Pass	
Endrin ketone	%	85			70-130	Pass	
g-BHC (Lindane)	%	98			70-130	Pass	
Heptachlor	%	87			70-130	Pass	
Heptachlor epoxide	%	101			70-130	Pass	
Hexachlorobenzene	%	78			70-130	Pass	
Methoxychlor	%	89			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls (PCB)							
Aroclor-1260	%	94			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	96			70-130	Pass	
Cadmium	%	102			70-130	Pass	
Chromium	%	105			70-130	Pass	
Copper	%	111			70-130	Pass	
Lead	%	99			70-130	Pass	
Mercury	%	102			70-130	Pass	
Nickel	%	108			70-130	Pass	
Zinc	%	102			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S14-Ja03640	CP	%	77			70-130	Pass	
TRH C10-C14	S14-Ja03640	CP	%	78			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S14-Ja03640	CP	%	96			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Toluene	S14-Ja03640	CP	%	90			70-130	Pass	
Ethylbenzene	S14-Ja03640	CP	%	88			70-130	Pass	
m&p-Xylenes	S14-Ja03640	CP	%	90			70-130	Pass	
o-Xylene	S14-Ja03640	CP	%	94			70-130	Pass	
Xylenes - Total	S14-Ja03640	CP	%	92			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S14-Ja03640	CP	%	79			70-130	Pass	
TRH C6-C10	S14-Ja03640	CP	%	74			70-130	Pass	
TRH >C10-C16	S14-Ja03640	CP	%	91			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S14-Ja03640	CP	%	122			70-130	Pass	
Acenaphthylene	S14-Ja03640	CP	%	125			70-130	Pass	
Anthracene	S14-Ja03640	CP	%	107			70-130	Pass	
Benz(a)anthracene	S14-Ja03640	CP	%	89			70-130	Pass	
Benzo(a)pyrene	S14-Ja03640	CP	%	89			70-130	Pass	
Benzo(b&j)fluoranthene	S14-Ja03640	CP	%	105			70-130	Pass	
Benzo(g.h.i)perylene	S14-Ja03640	CP	%	90			70-130	Pass	
Benzo(k)fluoranthene	S14-Ja03640	CP	%	48			70-130	Fail	Q08
Chrysene	S14-Ja03640	CP	%	94			70-130	Pass	
Dibenz(a.h)anthracene	S14-Ja03640	CP	%	123			70-130	Pass	
Fluoranthene	S14-Ja03640	CP	%	56			70-130	Fail	Q08
Fluorene	S14-Ja03640	CP	%	123			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja03640	CP	%	103			70-130	Pass	
Naphthalene	S14-Ja03640	CP	%	119			70-130	Pass	
Phenanthrene	S14-Ja03640	CP	%	93			70-130	Pass	
Pyrene	S14-Ja03640	CP	%	57			70-130	Fail	Q08
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S14-Ja03640	CP	%	99			70-130	Pass	
4.4'-DDD	S14-Ja03640	CP	%	109			70-130	Pass	
4.4'-DDE	S14-Ja03640	CP	%	107			70-130	Pass	
4.4'-DDT	S14-Ja03640	CP	%	86			70-130	Pass	
a-BHC	S14-Ja03640	CP	%	111			70-130	Pass	
Aldrin	S14-Ja03640	CP	%	107			70-130	Pass	
b-BHC	S14-Ja03640	CP	%	114			70-130	Pass	
d-BHC	S14-Ja03640	CP	%	113			70-130	Pass	
Dieldrin	S14-Ja03640	CP	%	96			70-130	Pass	
Endosulfan I	S14-Ja03640	CP	%	107			70-130	Pass	
Endosulfan II	S14-Ja03640	CP	%	94			70-130	Pass	
Endosulfan sulphate	S14-Ja03640	CP	%	90			70-130	Pass	
Endrin	S14-Ja03640	CP	%	102			70-130	Pass	
Endrin aldehyde	S14-Ja03640	CP	%	80			70-130	Pass	
Endrin ketone	S14-Ja03640	CP	%	91			70-130	Pass	
g-BHC (Lindane)	S14-Ja03640	CP	%	115			70-130	Pass	
Heptachlor	S14-Ja03640	CP	%	103			70-130	Pass	
Heptachlor epoxide	S14-Ja03640	CP	%	101			70-130	Pass	
Hexachlorobenzene	S14-Ja03640	CP	%	94			70-130	Pass	
Methoxychlor	S14-Ja03640	CP	%	105			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S14-Ja03640	CP	%	80			70-130	Pass	
Cadmium	S14-Ja03640	CP	%	88			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Chromium	S14-Ja03640	CP	%	94			70-130	Pass	
Copper	S14-Ja03640	CP	%	99			70-130	Pass	
Lead	S14-Ja04430	NCP	%	116			70-130	Pass	
Mercury	S14-Ja03640	CP	%	95			70-130	Pass	
Nickel	S14-Ja03640	CP	%	89			70-130	Pass	
Zinc	S14-Ja04430	NCP	%	128			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S14-Ja03640	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S14-Ja03640	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S14-Ja03640	CP	mg/kg	63	96	41	30%	Fail	Q15
TRH C29-C36	S14-Ja03640	CP	mg/kg	58	84	38	30%	Fail	Q15
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S14-Ja03640	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S14-Ja03640	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S14-Ja03640	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S14-Ja03640	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S14-Ja03640	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total	S14-Ja03640	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S14-Ja03640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S14-Ja03640	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S14-Ja03640	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S14-Ja03640	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S14-Ja03640	CP	mg/kg	110	170	40	30%	Fail	Q15
TRH >C34-C40	S14-Ja03640	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S14-Ja04447	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S14-Ja04447	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S14-Ja04447	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S14-Ja04447	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S14-Ja04447	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S14-Ja04447	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S14-Ja04447	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S14-Ja04447	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S14-Ja04447	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S14-Ja04447	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S14-Ja04447	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S14-Ja04447	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja04447	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S14-Ja04447	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S14-Ja04447	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S14-Ja04447	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S14-Ja03640	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S14-Ja03640	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S14-Ja03640	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S14-Ja03640	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	S14-Ja03640	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	

Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Aldrin	S14-Ja03640	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	S14-Ja03640	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-BHC	S14-Ja03640	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S14-Ja03640	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S14-Ja03640	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S14-Ja03640	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S14-Ja03640	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S14-Ja03640	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S14-Ja03640	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S14-Ja03640	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	S14-Ja03640	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S14-Ja03640	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S14-Ja03640	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S14-Ja03640	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S14-Ja03640	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Toxaphene	S14-Ja03640	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls (PCB)				Result 1	Result 2	RPD			
Aroclor-1016	S14-Ja03640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1232	S14-Ja03640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1242	S14-Ja03640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1248	S14-Ja03640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1254	S14-Ja03640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1260	S14-Ja03640	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S14-Ja03640	CP	mg/kg	5.2	2.4	75	30%	Fail	Q15
Cadmium	S14-Ja03640	CP	mg/kg	0.7	0.9	31	30%	Fail	Q15
Chromium	S14-Ja03640	CP	mg/kg	7.8	7.1	9.0	30%	Pass	
Copper	S14-Ja03640	CP	mg/kg	140	110	21	30%	Pass	
Lead	S14-Ja03640	CP	mg/kg	350	280	22	30%	Pass	
Mercury	S14-Ja03640	CP	mg/kg	0.43	0.36	18	30%	Pass	
Nickel	S14-Ja03640	CP	mg/kg	10	9.9	2.0	30%	Pass	
Zinc	S14-Ja03640	CP	mg/kg	310	370	17	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Conductivity (1:5 aqueous extract at 25°C)	S14-Ja03647	CP	uS/cm	440	440	<1	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q08	The matrix spike recovery is outside of the recommended acceptance criteria. An acceptable recovery was obtained for the laboratory control sample indicating a sample matrix interference
Q15	The RPD reported passes Eurofins | mgt's Acceptance Criteria as stipulated in SOP 05. Refer to Glossary Page of this report for further details

Authorised By

Jean Heng	Client Services
Bob Symons	Senior Analyst-Inorganic (NSW)
James Norford	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)
Ryan Hamilton	Senior Analyst-Volatile (NSW)

Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

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eurofins | mgt
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NSW 2066

CHAIN OF CUSTODY

JBS&G

*405454

PROJECT NO.: 43182
PROJECT NAME: Green Square Block 18
SEND REPORT TO: N Cussen SEND INVOICE TO: G Ng
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: [redacted] Chris D
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: ncussen@jbsg.com.au
QC LEVEL: NEPM (2013)

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	JB1	JB1T	JB1A	JB2	JB2A	B10	JB2/JBL	JB3/JBL	JB4	JBL	8 Metals	TPH	PAH	BTEX	PID	EC	Cr6 Cr3			NOTES:
FC070 0.1-0.2	Soil	9/1/14		5Gs + Ice					X																
FC070 0.5-0.6																Y	Y	Y		Y	X				
FC071 0.1-0.2									X											Y	Y				
FC071 0.5-0.8									X											X	X				
FC071 1.9-2.0									X											X	X				
FC071 2.8-3.0									X											X	X				
FC071 3.8-4.0									X											X	X				
FC071 4.8-5.0									X											X	X				
FC072 0.1-0.2									X							X	X	X		X	X				
FC072 0.4-0.6									X											X	X	X			
FC072 1.5-1.7				+ 6 Kg Dry					X											X	X	X			
FC072 2.9-3.1	↓	↓		↓					X							X	X	X	X						

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Nathan DATE: 10/1/14	CONSIGNMENT NOTE NO.	NAME: Ellen WG DATE: 130114	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	OF: EFImgt 1700	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - eurofins mgt

JB1 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1T - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos
JB2 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos

B10 - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2/JBL - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)
JB3/JBL - TRH/BTEX/PAH/OCP/OPP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)/Asbestos
JB4 - TRH/BTEX/VOC
JBL - TCLP(PAH & 6 Metals)

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

SAMPLE RECEIPT ADVICE

Client:

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney NSW 2000

ph: 02 8245 0300
Fax: 02 8245 0399

Attention: Joanne Rosner, Nathan Cussen

Sample log in details:

Your reference:	**43182, Green Square Block 18**
Envirolab Reference:	**103629**
Date received:	17/01/14
Date results expected to be reported:	**24/01/14**

Samples received in appropriate condition for analysis:	YES
No. of samples provided	1 soil
Turnaround time requested:	Standard
Temperature on receipt (°C)	NA
Cooling Method:	None
Sampling Date Provided:	YES

Comments:

Samples will be held for 1 month for water samples and 2 months for soil samples from date of receipt of samples.

Contact details:

Please direct any queries to Aileen Hie or Jacinta Hurst
ph: 02 9910 6200 fax: 02 9910 6201
email: ahie@envirolabservices.com.au or jhurst@envirolabservices.com.au

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

CERTIFICATE OF ANALYSIS 103629

Client:
JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention: Joanne Rosner, Nathan Cussen

Sample log in details:

Your Reference:	**43182, Green Square Block 18**		
No. of samples:	1 soil		
Date samples received / completed instructions received	17/01/14	/	17/01/14

Analysis Details:
Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by: / Issue Date:	24/01/14	/	22/01/14
Date of Preliminary Report:	Not issued		

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Accredited for compliance with ISO/IEC 17025. **Tests not covered by NATA are denoted with *.**

Results Approved By:

Jacinta Hurst
Laboratory Manager

TRH in Soil (C6-C9) NEPM		
Our Reference:	UNITS	103629-1
Your Reference	----------	QC18-A
Date Sampled	----------	15/01/2014
Type of sample		soil
Date extracted	-	20/01/2014
Date analysed	-	21/01/2014
TRH C_6 - C_9	mg/kg	<25
TRH C_6 - C_{10}	mg/kg	<25
Surrogate aaa-Trifluorotoluene	%	87

svTRH (C10-C40) in Soil		
Our Reference:	UNITS	103629-1
Your Reference	----------	QC18-A
Date Sampled	----------	15/01/2014
Type of sample		soil
Date extracted	-	20/01/2014
Date analysed	-	21/01/2014
TRHC$_{10}$ - C$_{14}$	mg/kg	<50
TRHC$_{15}$ - C$_{28}$	mg/kg	<100
TRHC$_{29}$ - C$_{36}$	mg/kg	<100
TRH>C$_{10}$-C$_{16}$	mg/kg	<50
TRH>C$_{16}$-C$_{34}$	mg/kg	<100
TRH>C$_{34}$-C$_{40}$	mg/kg	<100
Surrogate o-Terphenyl	%	89

PAHs in Soil		
Our Reference:	UNITS	103629-1
Your Reference	----------	QC18-A
Date Sampled	----------	15/01/2014
Type of sample		soil
Date extracted	-	20/01/2014
Date analysed	-	21/01/2014
Naphthalene	mg/kg	<0.1
Acenaphthylene	mg/kg	<0.1
Acenaphthene	mg/kg	<0.1
Fluorene	mg/kg	<0.1
Phenanthrene	mg/kg	<0.1
Anthracene	mg/kg	<0.1
Fluoranthene	mg/kg	<0.1
Pyrene	mg/kg	<0.1
Benzo(a)anthracene	mg/kg	<0.1
Chrysene	mg/kg	<0.1
Benzo(b+k)fluoranthene	mg/kg	<0.2
Benzo(a)pyrene	mg/kg	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1
Benzo(a)pyrene TEQ NEPM B1	mg/kg	<0.5
Total +ve PAH's	mg/kg	NIL (+)VE
Surrogate p-Terphenyl-d14	%	118

Acid Extractable metals in soil		
Our Reference:	UNITS	103629-1
Your Reference	----------	QC18-A
Date Sampled	----------	15/01/2014
Type of sample		soil
Date digested	-	20/01/2014
Date analysed	-	20/01/2014
Arsenic	mg/kg	<4
Cadmium	mg/kg	<0.4
Chromium	mg/kg	16
Copper	mg/kg	2
Lead	mg/kg	12
Mercury	mg/kg	<0.1
Nickel	mg/kg	1
Zinc	mg/kg	11

Moisture		
Our Reference:	UNITS	103629-1
Your Reference	----------	QC18-A
Date Sampled	----------	15/01/2014
Type of sample		soil
Date prepared	-	20/01/2014
Date analysed	-	21/01/2014
Moisture	%	23

Method ID	Methodology Summary
Org-016	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-003	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note Naphthalene is determined from the VOC analysis.
Org-012 subset	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.
Metals-020 ICP-AES	Determination of various metals by ICP-AES.
Metals-021 CV-AAS	Determination of Mercury by Cold Vapour AAS.
Inorg-008	Moisture content determined by heating at 105+/-5 deg C for a minimum of 12 hours.

QUALITY CONTROL TRH in Soil (C6-C9) NEPM	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			20/01/2014	[NT]	[NT]	LCS-2	20/01/2014
Date analysed	-			21/01/2014	[NT]	[NT]	LCS-2	21/01/2014
TRHC$_{6}$ - C$_{9}$	mg/kg	25	Org-016	<25	[NT]	[NT]	LCS-2	101%
TRHC$_{6}$ - C$_{10}$	mg/kg	25	Org-016	<25	[NT]	[NT]	LCS-2	101%
Surrogate aaa-Trifluorotoluene	%		Org-016	99	[NT]	[NT]	LCS-2	91%
QUALITY CONTROL svTRH (C10-C40) in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			20/01/2014	[NT]	[NT]	LCS-2	20/01/2014
Date analysed	-			21/01/2014	[NT]	[NT]	LCS-2	21/01/2014
TRHC$_{10}$ - C$_{14}$	mg/kg	50	Org-003	<50	[NT]	[NT]	LCS-2	129%
TRHC$_{15}$ - C$_{28}$	mg/kg	100	Org-003	<100	[NT]	[NT]	LCS-2	112%
TRHC$_{29}$ - C$_{36}$	mg/kg	100	Org-003	<100	[NT]	[NT]	LCS-2	92%
TRH>C$_{10}$-C$_{16}$	mg/kg	50	Org-003	<50	[NT]	[NT]	LCS-2	129%
TRH>C$_{16}$-C$_{34}$	mg/kg	100	Org-003	<100	[NT]	[NT]	LCS-2	112%
TRH>C$_{34}$-C$_{40}$	mg/kg	100	Org-003	<100	[NT]	[NT]	LCS-2	92%
Surrogate o-Terphenyl	%		Org-003	91	[NT]	[NT]	LCS-2	100%
QUALITY CONTROL PAHs in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			20/01/2014	[NT]	[NT]	LCS-2	20/01/2014
Date analysed	-			21/01/2014	[NT]	[NT]	LCS-2	21/01/2014
Naphthalene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-2	109%
Acenaphthylene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Acenaphthene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Fluorene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-2	112%
Phenanthrene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-2	109%
Anthracene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Fluoranthene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-2	108%
Pyrene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-2	114%
Benzo(a)anthracene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Chrysene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-2	101%

QUALITY CONTROL PAHs in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Benzo(b+k)fluoranthene	mg/kg	0.2	Org-012 subset	<0.2	[NT]	[NT]	[NR]	[NR]
Benzo(a)pyrene	mg/kg	0.05	Org-012 subset	<0.05	[NT]	[NT]	LCS-2	116%
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Surrogate p-Terphenyl-d14	%		Org-012 subset	118	[NT]	[NT]	LCS-2	122%
QUALITY CONTROL Acid Extractable metals in soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date digested	-			20/01/2014	[NT]	[NT]	LCS-16	20/01/2014
Date analysed	-			20/01/2014	[NT]	[NT]	LCS-16	20/01/2014
Arsenic	mg/kg	4	Metals-020 ICP-AES	<4	[NT]	[NT]	LCS-16	93%
Cadmium	mg/kg	0.4	Metals-020 ICP-AES	<0.4	[NT]	[NT]	LCS-16	101%
Chromium	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-16	100%
Copper	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-16	101%
Lead	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-16	96%
Mercury	mg/kg	0.1	Metals-021 CV-AAS	<0.1	[NT]	[NT]	LCS-16	84%
Nickel	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-16	98%
Zinc	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-16	99%

QUALITY CONTROL Moisture	UNITS	PQL	METHOD	Blank
Date prepared	-			[NT]
Date analysed	-			[NT]
Moisture	%	0.1	Inorg-008	[NT]

Report Comments:

Asbestos ID was analysed by Approved Identifier:	Not applicable for this job
Asbestos ID was authorised by Approved Signatory:	Not applicable for this job

INS: Insufficient sample for this test	PQL: Practical Quantitation Limit	NT: Not tested
NA: Test not required	RPD: Relative Percent Difference	NA: Test not required
<: Less than	>: Greater than	LCS: Laboratory Control Sample

Quality Control Definitions

Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

Duplicate: This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

Matrix Spike : A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

LCS (Laboratory Control Sample) : This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Surrogate Spike: Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.
Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.
Spikes for Physical and Aggregate Tests are not applicable.
For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.
Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for SVOC and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Envirolab Services Pty Ltd
12 Ashley Street
Chatswood
NSW 2067

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 48178
PROJECT NAME: Green Square Block 18
SEND REPORT TO: N Cussen SEND INVOICE TO: G NS
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: ETM
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: ncussen@jbsg.com.au
QC LEVEL: NEPM (2013)

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	COMBO SUITES: SOIL - 4	SOIL – 4L	SOIL – 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER – 1m	WATER – 2L	WATER – 3L	8 metals	TRH	PAH	NOTES:
1	QC18-A (not received (kev.))	soil	15-1-14		Jar + Ice												+	+	+	

Envirolab Service
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

ENVIROLAB

Job No: 103629
Date Received: 17/01
Time Received: 10:30
Received by: SW
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Nath DATE: 16.1.14	CONSIGNMENT NOTE NO.	NAME: Kavita Wang	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 16/1/14 17hrs	
NAME: DATE:	CONSIGNMENT NOTE NO.	OF: EnLS. NAME: DATE:	COOLER TEMP ..... deg C
OF:	TRANSPORT CO	OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
			COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Envirolab

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

SAMPLE RECEIPT ADVICE

Client:

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney NSW 2000

ph: 02 8245 0300
Fax: 02 8245 0399

Attention: Nathan Cussen

Sample log in details:

Your reference:	**43182, Green Square Block 18**
Envirolab Reference:	**103619**
Date received:	16/01/14
Date results expected to be reported:	**23/01/14**

Samples received in appropriate condition for analysis:	YES
No. of samples provided	14 soil
Turnaround time requested:	Standard
Temperature on receipt (°C)	NA
Cooling Method:	None
Sampling Date Provided:	YES

Comments:

Samples will be held for 1 month for water samples and 2 months for soil samples from date of receipt of samples.

Contact details:

Please direct any queries to Aileen Hie or Jacinta Hurst
ph: 02 9910 6200 fax: 02 9910 6201
email: ahie@envirolabservices.com.au or jhurst@envirolabservices.com.au

Envirolab Services Pty Ltd
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12 Ashley St Chatswood NSW 2067
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enquiries@envirolabservices.com.au
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CERTIFICATE OF ANALYSIS 103619

Client:

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention: Nathan Cussen

Sample log in details:

Your Reference:	**43182, Green Square Block 18**		
No. of samples:	14 soil		
Date samples received / completed instructions received	16/01/14	/	16/01/14

Analysis Details:

Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by: / Issue Date:	23/01/14	/	23/01/14
Date of Preliminary Report:	Not Issued		

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Accredited for compliance with ISO/IEC 17025. **Tests not covered by NATA are denoted with *.**

Results Approved By:

Jacinta Hurst
Laboratory Manager

Asbestos ID - soils WA						
Our Reference:	UNITS	103619-1	103619-3	103619-4	103619-5	103619-7
Your Reference	----------	FC069	FC069	FC070	FC071	FC071
Depth	----------	6.0-6.1	8.0-8.1	6.0-6.1	6.0-6.1	8.0-8.1
Date Sampled		15/01/2014	15/01/2014	15/01/2014	15/01/2014	15/01/2014
Type of sample		soil	soil	soil	soil	soil
Date analysed	-	23/01/2014	23/01/2014	23/01/2014	23/01/2014	23/01/2014
Sample mass tested	g	1160.38g	1323.18g	1058.85g	964.18g	801.08g
Sample Description	-	Dark brown fine-grained soil & rocks	Dark brown fine-grained soil & rocks	Dark brown fine-grained soil & rocks	Brown fine-grained soil & rocks	Brown fine-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected

Asbestos ID - soils WA			
Our Reference:	UNITS	103619-9	103619-10
Your Reference	----------	FC072	QC18-A
Depth	----------	6.0-6.1	-
Date Sampled		15/01/2014	15/01/2014
Type of sample		soil	soil
Date analysed	-	23/01/2014	23/01/2014
Sample mass tested	g	1203.63g	946.81g
Sample Description	-	Brown fine-grained soil & rocks	Dark brown fine-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected	No respirable fibres detected

Method ID	Methodology Summary
ASB-003	Asbestos ID - Minimum 500mL soil sample was analysed as recommended by "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.1g/kg as per AS4964-2004.

Report Comments:

This report is consistent with the analytical procedures and reporting recommendations in the Western Australian Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009.

Asbestos ID was analysed by Approved Identifier:	Alex Tam
Asbestos ID was authorised by Approved Signatory:	Matt Mansfield

INS: Insufficient sample for this test	PQL: Practical Quantitation Limit	NT: Not tested
NA: Test not required	RPD: Relative Percent Difference	NA: Test not required
<: Less than	>: Greater than	LCS: Laboratory Control Sample

Quality Control Definitions

Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

Duplicate: This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

Matrix Spike : A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

LCS (Laboratory Control Sample) : This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Surrogate Spike: Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.
Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.
Spikes for Physical and Aggregate Tests are not applicable.
For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.
Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for SVOC and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Envirolab Services Pty Ltd
12 Ashley Street
Chatswood
NSW 2067

Page 1 of 1

CHAIN OF CUSTODY 103619.

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square Block 18
SEND REPORT TO: N Cowan SEND INVOICE TO: G Ng
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: Ellen
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: nowane@jbsg.com.au

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	COMBO SUITES: SOIL - 4	SOIL - 4L	SOIL - 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER - 1m	WATER - 2L	WATER - 3L	Asbestos	NOTES:
1	FC069 0.0-0.1	Soil	15-1-14		Ice												X	
2	FC069 7.0-7.1																	
3	FC069 8.0-8.1																X	
4	FC070 0.0-0.1																X	
5	FC071 0.0-0.1																X	
6	FC071 7.0-7.1																	
7	FC071 8.0-8.1																X	
8	FC071 9.0-9.1																	
9	FC072 0.0-0.1																X	
10	QC18-A																	
11	QC18																X	

Please send to Pace

ENVIROLAB
Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200
Job No: 103619
Date Received: 16/1/14
Time Received: 17:00
Received by: [illegible]
Temp: Cool/Ambient
Cooling: Icepack
Security: Intact/Broken/None

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Nathan DATE: 15-1-14	CONSIGNMENT NOTE NO.	NAME: Kevin Wang	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 16/1/14 17:00	
NAME: DATE:	CONSIGNMENT NOTE NO.	OF: Eli	COOLER TEMP ..... deg C
OF:	TRANSPORT CO	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
		OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO Forms013 – Chain of Custody - Envirolab

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/QCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

12 Ashley Street
Chatswood
NSW 2067

Page 1 of 1

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square Block 18
SEND REPORT TO: N Cowan SEND INVOICE TO: G Ng
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: Ellen
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: nawsene@jbsg.com.au
QC LEVEL: NEPM (2013)

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	COMBO SUITES: SOIL - 4	SOIL – 4L	SOIL – 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER – 1m	WATER – 2L	WATER – 3L	NOTES:
1	FC069 6.0-6.1	Soil	15.1.14		Ice												
2	FC069 7.0-7.1	↓	↓		↓												
3	FC069 8.0-8.1																
4	FC070 6.0-6.1																
5	FC071 6.0-6.1																
6	FC071 7.0-7.1																
7	FC071 8.0-8.1																
8	FC071 9.0-9.1																
9	FC072 6.0-6.1																
10	QC18-A																
	QC18	↓	↓		↓												

Please send to Perth

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200
Job No: 103619
Date Received: 16/1/14
Time Received: 17:00
Received by: [illegible]
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

RELINQUISHED BY:
NAME: Nathan DATE: 16.1.14
OF: JBS&G
NAME: DATE:
OF:

METHOD OF SHIPMENT:
CONSIGNMENT NOTE NO.
TRANSPORT CO.
CONSIGNMENT NOTE NO.
TRANSPORT CO

RECEIVED BY:
NAME: Kevin Wang
DATE: 16/1/14 17:00
OF: ENS
NAME: DATE:
OF:

FOR RECEIVING LAB USE ONLY:
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Envirolab

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

SAMPLE RECEIPT ADVICE

Client:

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney NSW 2000

ph: 02 8245 0300
Fax: 02 8245 0399

Attention: Joanne Rosner, Nathan Cussen

Sample log in details:

Your reference:	**43182, Green Square Block 18**
Envirolab Reference:	**103476**
Date received:	14/01/14
Date results expected to be reported:	**21/01/14**

Samples received in appropriate condition for analysis:	YES
No. of samples provided	12 soils
Turnaround time requested:	Standard
Temperature on receipt (°C)	NA
Cooling Method:	None
Sampling Date Provided:	YES

Comments:

Samples will be held for 1 month for water samples and 2 months for soil samples from date of receipt of samples.

Contact details:

Please direct any queries to Aileen Hie or Jacinta Hurst
ph: 02 9910 6200 fax: 02 9910 6201
email: ahie@envirolabservices.com.au or jhurst@envirolabservices.com.au

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

CERTIFICATE OF ANALYSIS 103476

Client:
JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention: Joanne Rosner, Nathan Cussen

Sample log in details:

Your Reference:	**43182, Green Square Block 18**		
No. of samples:	12 soils		
Date samples received / completed instructions received	14/01/14	/	14/01/14

Analysis Details:
Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by: / Issue Date:	21/01/14	/	17/01/14
Date of Preliminary Report:	Not Issued		

NATA accreditation number 2901. This document shall not be reproduced except in full.
Accredited for compliance with ISO/IEC 17025. **Tests not covered by NATA are denoted with *.**

Results Approved By:

Jacinta Hurst
Laboratory Manager

Asbestos ID - soils WA						
Our Reference:	UNITS	103476-1	103476-2	103476-4	103476-6	103476-8
Your Reference	----------	FC070	FC070	FC071	FC071	FC071
Depth	----------	0.1-0.2	0.5-0.6	0.5-0.8	2.8-3.0	4.8-5.0
Date Sampled		09/01/2014	09/01/2014	09/01/2014	09/01/2014	09/01/2014
Type of sample		soil	soil	soil	soil	soil
Date analysed	-	17/01/2014	17/01/2014	17/01/2014	17/01/2014	17/01/2014
Sample mass tested	g	739.49g	585.08g	664.66g	664.31g	669.92g
Sample Description	-	Dark grey fine-grained soil & rocks	Dark grey coarse-grained soil & rocks	Dark grey fine-grained soil & rocks	Brown fine-grained soil & rocks	Dark brown fine-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected

Asbestos ID - soils WA				
Our Reference:	UNITS	103476-10	103476-11	103476-12
Your Reference	----------	FC072	FC072	FC072
Depth	----------	0.4-0.6	1.5-1.7	2.9-3.1
Date Sampled		09/01/2014	09/01/2014	09/01/2014
Type of sample		soil	soil	soil
Date analysed	-	17/01/2014	17/01/2014	17/01/2014
Sample mass tested	g	751.30g	774.35g	599.51g
Sample Description	-	Brown sandy soil	Brown fine-grained soil & rocks	Brown fine-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected

Method ID	Methodology Summary
ASB-003	Asbestos ID - Minimum 500mL soil sample was analysed as recommended by "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.1g/kg as per AS4964-2004.

Report Comments:

This report is consistent with the analytical procedures and reporting recommendations in the Western Australian Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009.

Asbestos ID was analysed by Approved Identifier: Alex Tam
Asbestos ID was authorised by Approved Signatory: Paul Ching

INS: Insufficient sample for this test
NA: Test not required
<: Less than

PQL: Practical Quantitation Limit
RPD: Relative Percent Difference
>: Greater than

NT: Not tested
NA: Test not required
LCS: Laboratory Control Sample

Quality Control Definitions

Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

Duplicate: This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

Matrix Spike : A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

LCS (Laboratory Control Sample) : This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Surrogate Spike: Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.
Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.
Spikes for Physical and Aggregate Tests are not applicable.
For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.
Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for SVOC and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

12 Ashley Street
Chatswood
NSW 2067

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 47182
PROJECT NAME: Green Square Block 18
SEND REPORT TO: N Cussen SEND INVOICE TO: Accounts
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: Chris
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: ncussen@jbsg.com.au
QC LEVEL: NEPM (2013)

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	SOIL - 4	SOIL - 4L	SOIL - 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER – 1m	WATER – 2L	WATER – 3L	Asbestos	NOTES:
1	FC070 0.1 – 0.2	Soil	9/1/14		Bag												X	
2	FC070 0.5 – 0.6																X	
3	FC071 0.1 – 0.2																	
4	FC071 0.5 – 0.8																X	
5	FC071 1.9 – 2.0																X	
6	FC071 2.8 – 3.0																	
7	FC071 3.8 – 4.0																X	
8	FC071 4.8 – 5.0																	
9	FC072 0.1 – 0.2																X	
10	FC072 0.4 – 0.6																	
11	FC072 1.5 – 1.7																X	
12	FC072 2.9 – 3.1																X	
~~13~~	~~FC072 3.8 – 4.0~~ D.F																X	

ENVIROLAB
Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200
Job No: 103476
Date Received: 14.1.14
Time Received: 9:00
Received by: DF
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Nathan DATE: 10/1/14	CONSIGNMENT NOTE NO.	NAME: Danielle Ford	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 14.1.14	
NAME: DATE:	CONSIGNMENT NOTE NO.	OF: ELS	COOLER TEMP ..... deg C
OF:	TRANSPORT CO	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
		OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Envirolab

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

eurofins | mgt

ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

Melbourne
3-5 Kingston Town Close
Oakleigh VIC 3166
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F6, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Order No.:
Report #: 406267
Phone: 02 8245 0300
Fax:

Received: Jan 22, 2014 9:30 AM
Due: Jan 30, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Client Job No.: ADDITIONAL: GREEN SQUARE DEVELOPMENT BLOCK 17 43182

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Asphalt*	Polycyclic Aromatic Hydrocarbons	Toxicity Characteristic Leaching Procedure (TCLP)	Metals M8
Laboratory where analysis is conducted									
Melbourne Laboratory - NATA Site # 1254 & 14271									
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794									
External Laboratory									
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**					
FC064 0.1-0.2	Jan 09, 2014		TCLP	S14-Ja09809	X		X	X	X
FC064 3.1-3.3	Jan 09, 2014		TCLP	S14-Ja09810	X			X	X
FC065 1.0-1.2	Jan 09, 2014		TCLP	S14-Ja09811	X	X	X	X	X
FC065 2.3-2.5	Jan 09, 2014		TCLP	S14-Ja09812	X		X	X	X
FC065 0.5-0.7	Jan 09, 2014		TCLP	S14-Ja09813	X			X	X
FC066 0.5-0.7	Jan 09, 2014		TCLP	S14-Ja09814	X		X	X	X
FC066 1.5-1.7	Jan 09, 2014		TCLP	S14-Ja09815	X			X	X
FC066 2.5-2.7	Jan 09, 2014		TCLP	S14-Ja09816	X			X	X
FC067 0.5-0.6	Jan 09, 2014		TCLP	S14-Ja09817	X		X	X	X
FC068 0.1-0.2	Jan 09, 2014		TCLP	S14-Ja09818	X		X	X	X

eurofins | mgt

ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

Melbourne
3-5 Kingston Town Close
Oakleigh VIC 3166
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F6, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name:	JBS & G (NSW & WA) Pty Ltd	**Order No.:**		**Received:**	Jan 22, 2014 9:30 AM
Address:	Level 1, 50 Margaret St Sydney NSW 2000	**Report #:**	406267	**Due:**	Jan 30, 2014
		Phone:	02 8245 0300	**Priority:**	5 Day
		Fax:		**Contact Name:**	Nathan Cussen

Client Job No.: ADDITIONAL: GREEN SQUARE DEVELOPMENT BLOCK 17 43182

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Asphalt*	Polycyclic Aromatic Hydrocarbons	Toxicity Characteristic Leaching Procedure (TCLP)	Metals M8
Laboratory where analysis is conducted									
Melbourne Laboratory - NATA Site # 1254 & 14271									
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794									
External Laboratory									
FC068 1.1-1.3	Jan 09, 2014		TCLP	S14-Ja09819	X			X	X
FC068 4.8-5.0	Jan 09, 2014		TCLP	S14-Ja09820	X			X	X

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Certificate of Analysis

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Nathan Cussen**

Report **406267-L**
Client Reference ADDITIONAL: GREEN SQUARE DEVELOPMENT BLOCK 17 43182
Received Date Jan 22, 2014

Client Sample ID **Sample Matrix** **Eurofins | mgt Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**FC064 0.1-0.2** **TCLP** **S14-Ja09809** **Jan 09, 2014**	**FC064 3.1-3.3** **TCLP** **S14-Ja09810** **Jan 09, 2014**	**FC065 1.0-1.2** **TCLP** **S14-Ja09811** **Jan 09, 2014**	**FC065 2.3-2.5** **TCLP** **S14-Ja09812** **Jan 09, 2014**
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.001	mg/L	0.002	-	0.002	< 0.001
Acenaphthylene	0.001	mg/L	< 0.001	-	0.004	< 0.001
Anthracene	0.001	mg/L	< 0.001	-	0.002	< 0.001
Benz(a)anthracene	0.001	mg/L	< 0.001	-	< 0.001	< 0.001
Benzo(a)pyrene	0.001	mg/L	< 0.001	-	< 0.001	< 0.001
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	< 0.001	-	< 0.001	< 0.001
Benzo(g.h.i)perylene	0.001	mg/L	< 0.001	-	< 0.001	< 0.001
Benzo(k)fluoranthene	0.001	mg/L	< 0.001	-	< 0.001	< 0.001
Chrysene	0.001	mg/L	< 0.001	-	< 0.001	< 0.001
Dibenz(a.h)anthracene	0.001	mg/L	< 0.001	-	< 0.001	< 0.001
Fluoranthene	0.001	mg/L	< 0.001	-	0.002	< 0.001
Fluorene	0.001	mg/L	0.001	-	0.004	< 0.001
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001	-	< 0.001	< 0.001
Naphthalene	0.001	mg/L	0.002	-	0.004	0.002
Phenanthrene	0.001	mg/L	< 0.001	-	0.007	0.001
Pyrene	0.001	mg/L	< 0.001	-	0.001	< 0.001
Total PAH	0.002	mg/L	0.005	-	0.026	0.003
2-Fluorobiphenyl (surr.)	1	%	91	-	83	72
p-Terphenyl-d14 (surr.)	1	%	128	-	108	92
Heavy Metals						
Arsenic	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Cadmium	0.005	mg/L	0.006	0.19	0.014	< 0.005
Chromium	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
Copper	0.05	mg/L	< 0.05	10	< 0.05	< 0.05
Lead	0.01	mg/L	0.02	9.7	0.06	0.10
Mercury	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Nickel	0.05	mg/L	< 0.05	0.29	< 0.05	< 0.05
Zinc	0.05	mg/L	1.0	49	0.61	0.34
% Moisture	0.1	%	5.1	21	11	11
Toxicity Characteristic Leaching Procedure (TCLP)						
Leachate Fluid[C01]		comment	1.0	1.0	1.0	1.0
pH (TCLP - HCl addition)	0.1	units	1.9	1.9	1.8	1.8
pH (TCLP - initial)	0.1	units	8.4	7.9	8.7	8.5
pH (TCLP - off)	0.1	units	6.2	5.8	6.3	5.1
Foreign Material - Type I						
Asphalt*			-	-	see attached	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC065 0.5-0.7 TCLP S14-Ja09813 Jan 09, 2014	FC066 0.5-0.7 TCLP S14-Ja09814 Jan 09, 2014	FC066 1.5-1.7 TCLP S14-Ja09815 Jan 09, 2014	FC066 2.5-2.7 TCLP S14-Ja09816 Jan 09, 2014
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.001	mg/L	-	0.004	-	-
Acenaphthylene	0.001	mg/L	-	0.001	-	-
Anthracene	0.001	mg/L	-	0.001	-	-
Benz(a)anthracene	0.001	mg/L	-	< 0.001	-	-
Benzo(a)pyrene	0.001	mg/L	-	< 0.001	-	-
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	-	< 0.001	-	-
Benzo(g.h.i)perylene	0.001	mg/L	-	< 0.001	-	-
Benzo(k)fluoranthene	0.001	mg/L	-	< 0.001	-	-
Chrysene	0.001	mg/L	-	< 0.001	-	-
Dibenz(a.h)anthracene	0.001	mg/L	-	< 0.001	-	-
Fluoranthene	0.001	mg/L	-	< 0.001	-	-
Fluorene	0.001	mg/L	-	0.003	-	-
Indeno(1.2.3-cd)pyrene	0.001	mg/L	-	< 0.001	-	-
Naphthalene	0.001	mg/L	-	0.002	-	-
Phenanthrene	0.001	mg/L	-	0.009	-	-
Pyrene	0.001	mg/L	-	< 0.001	-	-
Total PAH	0.002	mg/L	-	0.020	-	-
2-Fluorobiphenyl (surr.)	1	%	-	105	-	-
p-Terphenyl-d14 (surr.)	1	%	-	127	-	-
Heavy Metals						
Arsenic	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Cadmium	0.005	mg/L	0.010	0.007	0.051	0.009
Chromium	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
Copper	0.05	mg/L	0.10	< 0.05	0.09	0.05
Lead	0.01	mg/L	0.43	0.04	0.12	0.10
Mercury	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Nickel	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
Zinc	0.05	mg/L	3.0	0.44	1.4	0.47
% Moisture	0.1	%	13	11	10.0	7.8
Toxicity Characteristic Leaching Procedure (TCLP)						
Leachate Fluid[C01]		comment	1.0	1.0	1.0	1.0
pH (TCLP - HCl addition)	0.1	units	1.8	1.8	1.8	1.8
pH (TCLP - initial)	0.1	units	8.9	8.8	8.8	8.9
pH (TCLP - off)	0.1	units	5.8	6.3	6.0	6.3

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC067 0.5-0.6 TCLP S14-Ja09817 Jan 09, 2014	FC068 0.1-0.2 TCLP S14-Ja09818 Jan 09, 2014	FC068 1.1-1.3 TCLP S14-Ja09819 Jan 09, 2014	FC068 4.8-5.0 TCLP S14-Ja09820 Jan 09, 2014
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.001	mg/L	0.002	0.002	-	-
Acenaphthylene	0.001	mg/L	0.003	< 0.001	-	-
Anthracene	0.001	mg/L	0.002	< 0.001	-	-
Benz(a)anthracene	0.001	mg/L	< 0.001	< 0.001	-	-
Benzo(a)pyrene	0.001	mg/L	< 0.001	< 0.001	-	-
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	< 0.001	< 0.001	-	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC067 0.5-0.6 TCLP S14-Ja09817 Jan 09, 2014	FC068 0.1-0.2 TCLP S14-Ja09818 Jan 09, 2014	FC068 1.1-1.3 TCLP S14-Ja09819 Jan 09, 2014	FC068 4.8-5.0 TCLP S14-Ja09820 Jan 09, 2014
Polycyclic Aromatic Hydrocarbons						
Benzo(g.h.i)perylene	0.001	mg/L	< 0.001	< 0.001	-	-
Benzo(k)fluoranthene	0.001	mg/L	< 0.001	< 0.001	-	-
Chrysene	0.001	mg/L	< 0.001	< 0.001	-	-
Dibenz(a.h)anthracene	0.001	mg/L	< 0.001	< 0.001	-	-
Fluoranthene	0.001	mg/L	0.001	< 0.001	-	-
Fluorene	0.001	mg/L	0.005	0.002	-	-
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001	< 0.001	-	-
Naphthalene	0.001	mg/L	0.045	0.003	-	-
Phenanthrene	0.001	mg/L	0.010	0.002	-	-
Pyrene	0.001	mg/L	0.001	< 0.001	-	-
Total PAH	0.002	mg/L	0.069	0.009	-	-
2-Fluorobiphenyl (surr.)	1	%	84	102	-	-
p-Terphenyl-d14 (surr.)	1	%	112	125	-	-
Heavy Metals						
Arsenic	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Cadmium	0.005	mg/L	< 0.005	0.011	0.042	< 0.005
Chromium	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
Copper	0.05	mg/L	0.12	< 0.05	0.09	0.06
Lead	0.01	mg/L	0.02	0.07	0.22	1.3
Mercury	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Nickel	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
Zinc	0.05	mg/L	1.9	0.49	3.1	0.75
% Moisture	0.1	%	8.5	5.4	12	12
Toxicity Characteristic Leaching Procedure (TCLP)						
Leachate Fluid[C01]		comment	1.0	1.0	1.0	1.0
pH (TCLP - HCl addition)	0.1	units	1.8	1.8	1.9	1.8
pH (TCLP - initial)	0.1	units	8.7	8.8	8.8	9.0
pH (TCLP - off)	0.1	units	6.4	6.4	6.1	6.4

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Polycyclic Aromatic Hydrocarbons	Sydney	Jan 28, 2014	7 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Metals M8	Sydney	Jan 24, 2014	28 Day
- Method: E022 Acid Extractable metals in Soils & E026 Mercury			
% Moisture	Sydney	Jan 24, 2014	0 Day
- Method: E005 Moisture Content			
Toxicity Characteristic Leaching Procedure (TCLP)	Sydney	Jan 24, 2014	0 Day
- Method: E019 TCLP Preparation			
Foreign Material - Type I	Sydney	Jan 23, 2014	0 Day
- Method: RTA Method T276			

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NATA # 1261 Site # 18217

Brisbane
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Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Order No.:
Report #: 406267
Phone: 02 8245 0300
Fax:

Received: Jan 22, 2014 9:30 AM
Due: Jan 30, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Client Job No.: ADDITIONAL: GREEN SQUARE DEVELOPMENT BLOCK 17 43182

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Asphalt*	Polycyclic Aromatic Hydrocarbons	Toxicity Characteristic Leaching Procedure (TCLP)	Metals M8
Laboratory where analysis is conducted									
Melbourne Laboratory - NATA Site # 1254 & 14271									
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794									
External Laboratory									
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**					
FC064 0.1-0.2	Jan 09, 2014		TCLP	S14-Ja09809	X		X	X	X
FC064 3.1-3.3	Jan 09, 2014		TCLP	S14-Ja09810	X			X	X
FC065 1.0-1.2	Jan 09, 2014		TCLP	S14-Ja09811	X	X	X	X	X
FC065 2.3-2.5	Jan 09, 2014		TCLP	S14-Ja09812	X		X	X	X
FC065 0.5-0.7	Jan 09, 2014		TCLP	S14-Ja09813	X			X	X
FC066 0.5-0.7	Jan 09, 2014		TCLP	S14-Ja09814	X		X	X	X
FC066 1.5-1.7	Jan 09, 2014		TCLP	S14-Ja09815	X			X	X
FC066 2.5-2.7	Jan 09, 2014		TCLP	S14-Ja09816	X			X	X
FC067 0.5-0.6	Jan 09, 2014		TCLP	S14-Ja09817	X		X	X	X
FC068 0.1-0.2	Jan 09, 2014		TCLP	S14-Ja09818	X		X	X	X

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Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name:	JBS & G (NSW & WA) Pty Ltd	**Order No.:**		**Received:**	Jan 22, 2014 9:30 AM
Address:	Level 1, 50 Margaret St	**Report #:**	406267	**Due:**	Jan 30, 2014
	Sydney	**Phone:**	02 8245 0300	**Priority:**	5 Day
	NSW 2000	**Fax:**		**Contact Name:**	Nathan Cussen

Client Job No.: ADDITIONAL: GREEN SQUARE DEVELOPMENT BLOCK 17 43182

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Asphalt*	Polycyclic Aromatic Hydrocarbons	Toxicity Characteristic Leaching Procedure (TCLP)	Metals M8
Laboratory where analysis is conducted									
Melbourne Laboratory - NATA Site # 1254 & 14271									
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794									
External Laboratory									
FC068 1.1-1.3	Jan 09, 2014		TCLP	S14-Ja09819	X			X	X
FC068 4.8-5.0	Jan 09, 2014		TCLP	S14-Ja09820	X			X	X

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/L	< 0.001			0.001	Pass	
Acenaphthylene	mg/L	< 0.001			0.001	Pass	
Anthracene	mg/L	< 0.001			0.001	Pass	
Benz(a)anthracene	mg/L	< 0.001			0.001	Pass	
Benzo(a)pyrene	mg/L	< 0.001			0.001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.001			0.001	Pass	
Benzo(g.h.i)perylene	mg/L	< 0.001			0.001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.001			0.001	Pass	
Chrysene	mg/L	< 0.001			0.001	Pass	
Dibenz(a.h)anthracene	mg/L	< 0.001			0.001	Pass	
Fluoranthene	mg/L	< 0.001			0.001	Pass	
Fluorene	mg/L	< 0.001			0.001	Pass	
Indeno(1.2.3-cd)pyrene	mg/L	< 0.001			0.001	Pass	
Naphthalene	mg/L	< 0.001			0.001	Pass	
Phenanthrene	mg/L	< 0.001			0.001	Pass	
Pyrene	mg/L	< 0.001			0.001	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.01			0.01	Pass	
Cadmium	mg/L	< 0.005			0.005	Pass	
Chromium	mg/L	< 0.05			0.05	Pass	
Copper	mg/L	< 0.05			0.05	Pass	
Lead	mg/L	< 0.01			0.01	Pass	
Mercury	mg/L	< 0.001			0.001	Pass	
Nickel	mg/L	< 0.05			0.05	Pass	
Zinc	mg/L	< 0.05			0.05	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S14-Ja10859	NCP	%	76			70-130	Pass	
Acenaphthylene	S14-Ja10859	NCP	%	71			70-130	Pass	
Anthracene	S14-Ja10859	NCP	%	77			70-130	Pass	
Benz(a)anthracene	S14-Ja10859	NCP	%	71			70-130	Pass	
Benzo(a)pyrene	S14-Ja10859	NCP	%	75			70-130	Pass	
Benzo(b&j)fluoranthene	S14-Ja10859	NCP	%	79			70-130	Pass	
Benzo(g.h.i)perylene	S14-Ja10859	NCP	%	75			70-130	Pass	
Benzo(k)fluoranthene	S14-Ja10859	NCP	%	73			70-130	Pass	
Chrysene	S14-Ja10859	NCP	%	72			70-130	Pass	
Dibenz(a.h)anthracene	S14-Ja10859	NCP	%	78			70-130	Pass	
Fluoranthene	S14-Ja10859	NCP	%	76			70-130	Pass	
Fluorene	S14-Ja10859	NCP	%	77			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja10859	NCP	%	77			70-130	Pass	
Naphthalene	S14-Ja10859	NCP	%	73			70-130	Pass	
Phenanthrene	S14-Ja10859	NCP	%	83			70-130	Pass	
Pyrene	S14-Ja10859	NCP	%	77			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S14-Ja09815	CP	%	99			70-130	Pass	
Cadmium	S14-Ja09815	CP	%	98			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Chromium	S14-Ja09815	CP	%	96			70-130	Pass	
Copper	S14-Ja09815	CP	%	92			70-130	Pass	
Lead	S14-Ja09815	CP	%	91			70-130	Pass	
Mercury	S14-Ja09815	CP	%	101			70-130	Pass	
Nickel	S14-Ja09815	CP	%	93			70-130	Pass	
Zinc	S14-Ja09815	CP	%	89			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S14-Ja10858	NCP	mg/L	0.0033	0.0031	6.0	30%	Pass	
Acenaphthylene	S14-Ja10858	NCP	mg/L	0.0010	< 0.001	1.0	30%	Pass	
Anthracene	S14-Ja10858	NCP	mg/L	0.0027	0.0026	6.0	30%	Pass	
Benz(a)anthracene	S14-Ja10858	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(a)pyrene	S14-Ja10858	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(b&j)fluoranthene	S14-Ja10858	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(g.h.i)perylene	S14-Ja10858	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(k)fluoranthene	S14-Ja10858	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chrysene	S14-Ja10858	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibenz(a.h)anthracene	S14-Ja10858	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluoranthene	S14-Ja10858	NCP	mg/L	0.0048	0.0046	4.0	30%	Pass	
Fluorene	S14-Ja10858	NCP	mg/L	0.0027	0.0025	8.0	30%	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja10858	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Naphthalene	S14-Ja10858	NCP	mg/L	0.0041	0.0039	5.0	30%	Pass	
Phenanthrene	S14-Ja10858	NCP	mg/L	0.014	0.013	3.0	30%	Pass	
Pyrene	S14-Ja10858	NCP	mg/L	0.0038	0.0037	4.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S14-Ja09814	CP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Cadmium	S14-Ja09814	CP	mg/L	0.007	0.007	1.0	30%	Pass	
Chromium	S14-Ja09814	CP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Copper	S14-Ja09814	CP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Lead	S14-Ja09814	CP	mg/L	0.04	0.05	4.0	30%	Pass	
Mercury	S14-Ja09814	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Nickel	S14-Ja09814	CP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Zinc	S14-Ja09814	CP	mg/L	0.44	0.44	1.0	30%	Pass	

Comments

Coal Tar analysis was performed by Envirolab Services. Report reference 104020

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	Yes

Qualifier Codes/Comments

Code	Description
C01	Leachate Fluid Key: 1 - pH 5.0, 2 - pH 2.9, 3 - pH 9.2, 4 - Reagent (DI) water, 5 - Client sample, 6 - other
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs

Authorised By

Jean Heng	Client Services
James Norford	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)

Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

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ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

CERTIFICATE OF ANALYSIS 104020

Client:
Eurofins | mgt
3 Kingston Town Cl
Oakleigh
VIC 3166

Attention: Sefton McGraw

Sample log in details:

Your Reference:	**406267**		
No. of samples:	1 soil		
Date samples received / completed instructions received	24/01/14	/	24/01/14

Analysis Details:
Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by: / Issue Date:	30/01/14	/	30/01/14
Date of Preliminary Report:	Not issued		

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Accredited for compliance with ISO/IEC 17025. **Tests not covered by NATA are denoted with *.**

Results Approved By:

Jacinta Hurst
Laboratory Manager

NATA
ACCREDITED FOR TECHNICAL COMPETENCE

Miscellaneous Inorg - soil		
Our Reference:	UNITS	104020-1
Your Reference	----------	FC065
Depth	----------	1.0-1.2
Type of sample		soil
Date prepared	-	28/01/2014
Date analysed	-	28/01/2014
Presence of Coal Tar*	-	Absent

Method ID	Methodology Summary
RTA T542	Determination of Phenol in core samples as per RTA test method T542. This procedure gives and indication of whether a sample of asphalt has been made with coal tar.

Client Reference: 406267

QUALITY CONTROL Miscellaneous Inorg - soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base II Duplicate II %RPD	Spike Sm#	Spike % Recovery
Date prepared	-			28/01/2014	[NT]	[NT]	LCS-1	28/01/2014
Date analysed	-			28/01/2014	[NT]	[NT]	LCS-1	28/01/2014
Presence of Coal Tar*	-		RTA T542	Absent	[NT]	[NT]	LCS-1	Present

Report Comments:

Asbestos ID was analysed by Approved Identifier:	Not applicable for this job
Asbestos ID was authorised by Approved Signatory:	Not applicable for this job

INS: Insufficient sample for this test	PQL: Practical Quantitation Limit	NT: Not tested
NA: Test not required	RPD: Relative Percent Difference	NA: Test not required
<: Less than	>: Greater than	LCS: Laboratory Control Sample

Quality Control Definitions

Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

Duplicate: This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

Matrix Spike : A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

LCS (Laboratory Control Sample) : This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Surrogate Spike: Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.
Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.
Spikes for Physical and Aggregate Tests are not applicable.
For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.
Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for SVOC and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

From: Nathan Cussen [mailto:NCussen@jbsg.com.au]
Sent: Wednesday, 22 January 2014 9:30 AM
To: Jean Heng
Subject: ADDITIONAL ANALYSIS BLOCK 17 43182 - Lab Batch 405524

Hi Jean,

Could I please schedule the following additional analysis:

- FC064 0.1-0.2 METALS/PAH TCLP
- FC064 3.1-3.3 METALS TCLP
- FC065 0.1-0.2 PAH/METAL TCLP. Could I also get this sample analysed for COAL TAR
- FC065 2.3-2.5 PAH/METALS TCLP
- FC065 0.5-0.7 METALS TCLP
- FC066 0.5-0.7 PAH/METALS TCLP
- FC066 1.5-1.7 METALS TCLP
- FC066 2.5-2.7 METALS TCLP
- FC067 0.5-0.6 PAH/METALS TCLP
- FC068 0.1-0.2 PAH/METALS TCLP
- FC068 1.1-1.3 METALS TCLP
- FC068 4.8-5.0 METAL TCLP

#406267

Regards
Nathan

Nathan Cussen | Senior Environmental Consultant| JBS&G
Sydney | Melbourne | Adelaide | Perth | Brisbane
Level 1, 50 Margaret Street, Sydney NSW 2000
T: 02 8245 0300 | M: 0431 401 022| www.jbsg.com.au
Contaminated Land | Groundwater Remediation | Auditing and Compliance | Assessments and Approvals | Occupational Hygiene and Monitoring

If you would like to send through large electronic files (>25MB), please use JBS&G's secure internet-based file delivery system located at http://dropbox.yousendit.com/JBSG. Place `Nathan Cussen - Sydney in the subject.
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Brisbane
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Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: GREEN SQUARE DEVELOPMENT BLOCK 17 43182

Order No.:
Report #: 405524
Phone: 02 8245 0300
Fax:

Received: Jan 13, 2014 5:00 PM
Due: Jan 21, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Metals M8	BTEX	Polychlorinated Biphenyls (PCB)	Total Recoverable Hydrocarbons	Foreign Materials - ENM	Volatile Organics	JBS&G Suite 2
Laboratory where analysis is conducted																	
Melbourne Laboratory - NATA Site # 1254 & 14271																	
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																	
External Laboratory																	
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**													
FC064 0.1-0.2	Jan 09, 2014		Soil	S14-Ja04111	X	X		X	X	X	X			X			
FC064 0.5-0.7	Jan 09, 2014		Soil	S14-Ja04112	X				X		X		X	X			
FC064 1.9-2.1	Jan 09, 2014		Soil	S14-Ja04113			X										
FC064 3.1-3.3	Jan 09, 2014		Soil	S14-Ja04114	X				X		X			X			
FC064 3.8-4.0	Jan 09, 2014		Soil	S14-Ja04115			X										
FC064 4.7-4.9	Jan 09, 2014		Soil	S14-Ja04116	X	X		X	X		X	X		X			
FC065 0.1-0.2	Jan 09, 2014		Soil	S14-Ja04117	X	X		X									X
FC065 0.5-0.7	Jan 09, 2014		Soil	S14-Ja04118	X	X		X	X		X			X			
FC065 1.0-1.2	Jan 09, 2014		Soil	S14-Ja04119			X										
FC065 2.3-2.5	Jan 09, 2014		Soil	S14-Ja04120	X	X		X	X	X	X			X			

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Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
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Client Job No.: GREEN SQUARE DEVELOPMENT BLOCK 17 43182

Order No.:
Report #: 405524
Phone: 02 8245 0300
Fax:

Received: Jan 13, 2014 5:00 PM
Due: Jan 21, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Metals M8	BTEX	Polychlorinated Biphenyls (PCB)	Total Recoverable Hydrocarbons	Foreign Materials - ENM	Volatile Organics	JBS&G Suite 2
Laboratory where analysis is conducted																	
Melbourne Laboratory - NATA Site # 1254 & 14271																	
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																	
External Laboratory																	
FC065 3.0-3.2	Jan 09, 2014		Soil	S14-Ja04121	X				X		X			X			
FC065 4.5-4.7	Jan 09, 2014		Soil	S14-Ja04122			X										
FC066 0.1-0.2	Jan 09, 2014		Soil	S14-Ja04123			X										
FC066 0.5-0.7	Jan 09, 2014		Soil	S14-Ja04124	X	X		X	X		X			X			
FC066 1.5-1.7	Jan 09, 2014		Soil	S14-Ja04125	X						X			X		X	
FC066 2.5-2.7	Jan 09, 2014		Soil	S14-Ja04126	X	X		X									X
FC066 3.1-3.3	Jan 09, 2014		Soil	S14-Ja04127	X	X		X	X	X	X	X		X	X		
FC066 4.5-4.7	Jan 09, 2014		Soil	S14-Ja04128			X										
FC067 0.1-0.2	Jan 09, 2014		Soil	S14-Ja04129			X										
FC067 0.5-0.6	Jan 09, 2014		Soil	S14-Ja04130	X	X		X	X		X			X			
FC067 0.9-1.1	Jan 09, 2014		Soil	S14-Ja04131	X				X		X			X			

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Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
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NSW 2000

Client Job No.: GREEN SQUARE DEVELOPMENT BLOCK 17 43182

Order No.:
Report #: 405524
Phone: 02 8245 0300
Fax:

Received: Jan 13, 2014 5:00 PM
Due: Jan 21, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Metals M8	BTEX	Polychlorinated Biphenyls (PCB)	Total Recoverable Hydrocarbons	Foreign Materials - ENM	Volatile Organics	JBS&G Suite 2
Laboratory where analysis is conducted																	
Melbourne Laboratory - NATA Site # 1254 & 14271																	
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																	
External Laboratory																	
FC067 1.9-2.1	Jan 09, 2014		Soil	S14-Ja04132			X										
FC067 3.1-3.3	Jan 09, 2014		Soil	S14-Ja04133	X	X		X									X
FC067 4.5-4.7	Jan 09, 2014		Soil	S14-Ja04134			X										
FC068 0.1-0.2	Jan 09, 2014		Soil	S14-Ja04135	X				X		X			X			
FC068 0.6-0.8	Jan 09, 2014		Soil	S14-Ja04136			X										
FC068 1.1-1.3	Jan 09, 2014		Soil	S14-Ja04137	X				X		X			X			
FC068 3.8-4.0	Jan 09, 2014		Soil	S14-Ja04138			X										
FC068 4.8-5.0	Jan 09, 2014		Soil	S14-Ja04139	X												X
FC068 1.8-2.0	Jan 09, 2014		Soil	S14-Ja04187			X										

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NATA # 1261 Site # 20794

Sample Receipt Advice

Company name: **JBS & G (NSW & WA) Pty Ltd**

Contact name: Nathan Cussen
Client job number: GREEN SQUARE DEVELOPMENT BLOCK 17 43182
COC number: Not provided
Turn around time: 5 Day
Date/Time received: Jan 13, 2014 5:00 PM
Eurofins | mgt reference: **405524**

Sample information

☑ A detailed list of analytes logged into our LIMS, is included in the attached summary table.

☑ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt Sample Receipt : 7 degrees Celsius.

☒ All samples have been received as described on the above COC.

☑ COC has been completed correctly.

☑ Attempt to chill was evident.

☑ Appropriately preserved sample containers have been used.

☑ All samples were received in good condition.

☑ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.

☑ Organic samples had Teflon liners.

☒ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Notes

Extra sample received and placed on HOLD - FC068 1.8-2.0

Contact notes

If you have any questions with respect to these samples please contact:

Jean Heng on Phone : (+61) (2) 9900 8400 or by e.mail: JeanHeng@eurofins.com.au

Results will be delivered electronically via e.mail to Nathan Cussen - ncussen@jbsg.com.au.

Eurofins | mgt Sample Receipt

eurofins | mgt

Certificate of Analysis

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Nathan Cussen**

Report **405524-S-V2**
Client Reference GREEN SQUARE DEVELOPMENT BLOCK 17 43182
Received Date Jan 13, 2014

Client Sample ID **Sample Matrix** **Eurofins | mgt Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**FC064 0.1-0.2** **Soil** **S14-Ja04111** **Jan 09, 2014**	**FC064 0.5-0.7** **Soil** **S14-Ja04112** **Jan 09, 2014**	**FC064 3.1-3.3** **Soil** **S14-Ja04114** **Jan 09, 2014**	**FC064 4.7-4.9** **Soil** **S14-Ja04116** **Jan 09, 2014**
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	53	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	100	< 50
TRH C10-36 (Total)	50	mg/kg	< 50	< 50	150	< 50
BTEX						
Benzene	0.1	mg/kg	-	-	-	< 0.1
Toluene	0.1	mg/kg	-	-	-	< 0.1
Ethylbenzene	0.1	mg/kg	-	-	-	< 0.1
m&p-Xylenes	0.2	mg/kg	-	-	-	< 0.2
o-Xylene	0.1	mg/kg	-	-	-	< 0.1
Xylenes - Total	0.3	mg/kg	-	-	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	-	-	85
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	140	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	0.6	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	1.4	< 0.5	0.5	0.6
Benzo(a)pyrene	0.5	mg/kg	1.4	< 0.5	0.9	1.1
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	1.3	< 0.5	0.8	1.3
Benzo(g.h.i)perylene	0.5	mg/kg	0.8	< 0.5	0.9	1.0
Benzo(k)fluoranthene	0.5	mg/kg	0.7	< 0.5	< 0.5	0.6
Chrysene	0.5	mg/kg	1.3	< 0.5	0.5	0.6
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	3.1	< 0.5	0.8	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	0.7	< 0.5	0.6	0.8
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC064 0.1-0.2 Soil S14-Ja04111 Jan 09, 2014	FC064 0.5-0.7 Soil S14-Ja04112 Jan 09, 2014	FC064 3.1-3.3 Soil S14-Ja04114 Jan 09, 2014	FC064 4.7-4.9 Soil S14-Ja04116 Jan 09, 2014
Polycyclic Aromatic Hydrocarbons						
Phenanthrene	0.5	mg/kg	1.7	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	2.8	< 0.5	0.8	0.5
Total PAH	0.5	mg/kg	16	< 0.5	5.8	6.5
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	1.8	< 0.5	1.1	1.4
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	2.0	0.6	1.3	1.7
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	2.3	1.2	1.6	1.9
2-Fluorobiphenyl (surr.)	1	%	92	86	89	86
p-Terphenyl-d14 (surr.)	1	%	106	98	105	101
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	-
4.4'-DDD	0.05	mg/kg	< 0.05	-	-	-
4.4'-DDE	0.05	mg/kg	< 0.05	-	-	-
4.4'-DDT	0.05	mg/kg	< 0.05	-	-	-
a-BHC	0.05	mg/kg	< 0.05	-	-	-
Aldrin	0.05	mg/kg	< 0.05	-	-	-
b-BHC	0.05	mg/kg	< 0.05	-	-	-
d-BHC	0.05	mg/kg	< 0.05	-	-	-
Dieldrin	0.05	mg/kg	< 0.05	-	-	-
Endosulfan I	0.05	mg/kg	< 0.05	-	-	-
Endosulfan II	0.05	mg/kg	< 0.05	-	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	-
Endrin	0.05	mg/kg	< 0.05	-	-	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	-
Endrin ketone	0.05	mg/kg	< 0.05	-	-	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	-	-
Heptachlor	0.05	mg/kg	< 0.05	-	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	-
Methoxychlor	0.2	mg/kg	< 0.2	-	-	-
Toxaphene	1	mg/kg	< 1	-	-	-
Dibutylchlorendate (surr.)	1	%	92	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	75	-	-	-
Polychlorinated Biphenyls (PCB)						
Aroclor-1016	0.5	mg/kg	-	< 0.5	-	-
Aroclor-1232	0.5	mg/kg	-	< 0.5	-	-
Aroclor-1242	0.5	mg/kg	-	< 0.5	-	-
Aroclor-1248	0.5	mg/kg	-	< 0.5	-	-
Aroclor-1254	0.5	mg/kg	-	< 0.5	-	-
Aroclor-1260	0.5	mg/kg	-	< 0.5	-	-
Total PCB	0.5	mg/kg	-	< 0.5	-	-
Dibutylchlorendate (surr.)	1	%	-	122	-	-
Conductivity (1:5 aqueous extract at 25°C)	5	uS/cm	78	-	-	140
pH (1:5 Aqueous extract)	0.1	units	8.9	-	-	8.4
% Moisture	0.1	%	6.0	25	20	27

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC064 0.1-0.2 Soil S14-Ja04111 Jan 09, 2014	FC064 0.5-0.7 Soil S14-Ja04112 Jan 09, 2014	FC064 3.1-3.3 Soil S14-Ja04114 Jan 09, 2014	FC064 4.7-4.9 Soil S14-Ja04116 Jan 09, 2014
Heavy Metals						
Arsenic	2	mg/kg	41	< 2	33	11
Cadmium	0.4	mg/kg	5.3	0.4	23	1.0
Chromium	5	mg/kg	26	< 5	120	13
Copper	5	mg/kg	160	50	830	750
Lead	5	mg/kg	350	41	5900	75
Mercury	0.05	mg/kg	1.1	0.08	0.44	0.10
Nickel	5	mg/kg	62	10	44	13
Zinc	5	mg/kg	1800	58	11000	1400

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC065 1.0-1.2 Soil S14-Ja04117 Jan 09, 2014	FC065 0.5-0.7 Soil S14-Ja04118 Jan 09, 2014	FC065 0.1-0.2 Soil S14-Ja09907 Jan 09, 2014	FC065 2.3-2.5 Soil S14-Ja04120 Jan 09, 2014
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	2000	< 50	53	< 50
TRH C29-C36	50	mg/kg	1200	< 50	63	< 50
TRH C10-36 (Total)	50	mg/kg	3200	< 50	120	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	-
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	-
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	-
Xylenes - Total	0.3	mg/kg	< 0.3	-	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	89	-	89	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	63	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	63	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	3100	< 100	110	< 100
TRH >C34-C40	100	mg/kg	620	< 100	< 100	< 100
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	2.7	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	3.6	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	13	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	38	0.9	0.7	1.2
Benzo(a)pyrene	0.5	mg/kg	40	0.9	0.7	1.3
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	35	0.8	0.9	1.1
Benzo(g.h.i)perylene	0.5	mg/kg	23	0.5	< 0.5	0.7
Benzo(k)fluoranthene	0.5	mg/kg	16	< 0.5	< 0.5	0.6
Chrysene	0.5	mg/kg	34	0.8	0.7	1.1
Dibenz(a.h)anthracene	0.5	mg/kg	5.6	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	77	1.6	1.5	2.4

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC065 1.0-1.2 Soil S14-Ja04117 Jan 09, 2014	FC065 0.5-0.7 Soil S14-Ja04118 Jan 09, 2014	FC065 0.1-0.2 Soil S14-Ja09907 Jan 09, 2014	FC065 2.3-2.5 Soil S14-Ja04120 Jan 09, 2014
Polycyclic Aromatic Hydrocarbons						
Fluorene	0.5	mg/kg	3.6	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	19	< 0.5	< 0.5	0.7
Naphthalene	0.5	mg/kg	0.8	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	34	0.7	0.9	1.6
Pyrene	0.5	mg/kg	79	1.6	1.5	2.3
Total PAH	0.5	mg/kg	420	7.8	6.9	13
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	57	1.0	0.9	1.6
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	57	1.3	1.2	1.9
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	57	1.6	1.5	2.1
2-Fluorobiphenyl (surr.)	1	%	87	87	96	88
p-Terphenyl-d14 (surr.)	1	%	105	101	111	103
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
a-BHC	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
b-BHC	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
d-BHC	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Methoxychlor	0.2	mg/kg	< 0.2	-	< 0.2	< 0.2
Toxaphene	1	mg/kg	< 1	-	< 1	< 1
Dibutylchlorendate (surr.)	1	%	93	-	71	110
Tetrachloro-m-xylene (surr.)	1	%	74	-	73	84
Polychlorinated Biphenyls (PCB)						
Aroclor-1016	0.5	mg/kg	< 0.5	-	< 0.5	-
Aroclor-1232	0.5	mg/kg	< 0.5	-	< 0.5	-
Aroclor-1242	0.5	mg/kg	< 0.5	-	< 0.5	-
Aroclor-1248	0.5	mg/kg	< 0.5	-	< 0.5	-
Aroclor-1254	0.5	mg/kg	< 0.5	-	< 0.5	-
Aroclor-1260	0.5	mg/kg	< 0.5	-	< 0.5	-
Total PCB	0.5	mg/kg	< 0.5	-	< 0.5	-
Dibutylchlorendate (surr.)	1	%	93	-	71	-
Conductivity (1:5 aqueous extract at 25°C)	5	uS/cm	120	100	470	160
pH (1:5 Aqueous extract)	0.1	units	8.6	8.6	8.6	8.7
% Moisture	0.1	%	14	17	5.7	7.2

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC065 1.0-1.2 Soil S14-Ja04117 Jan 09, 2014	FC065 0.5-0.7 Soil S14-Ja04118 Jan 09, 2014	FC065 0.1-0.2 Soil S14-Ja09907 Jan 09, 2014	FC065 2.3-2.5 Soil S14-Ja04120 Jan 09, 2014
Heavy Metals						
Arsenic	2	mg/kg	< 2	4.5	< 2	3.0
Cadmium	0.4	mg/kg	1.3	3.5	0.7	< 0.4
Chromium	5	mg/kg	18	11	25	6.6
Copper	5	mg/kg	77	67000	65	130
Lead	5	mg/kg	460	1800	140	230
Mercury	0.05	mg/kg	0.38	0.32	0.21	0.27
Nickel	5	mg/kg	14	62	48	< 5
Zinc	5	mg/kg	270	26000	180	120

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC065 3.0-3.2 Soil S14-Ja04121 Jan 09, 2014	FC066 0.5-0.7 Soil S14-Ja04124 Jan 09, 2014	FC066 1.5-1.7 Soil S14-Ja04125 Jan 09, 2014	FC066 2.5-2.7 Soil S14-Ja04126 Jan 09, 2014
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	58	300	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	140	< 50
TRH C10-36 (Total)	50	mg/kg	< 50	58	440	< 50
BTEX						
Benzene	0.1	mg/kg	-	-	-	< 0.1
Toluene	0.1	mg/kg	-	-	-	< 0.1
Ethylbenzene	0.1	mg/kg	-	-	-	< 0.1
m&p-Xylenes	0.2	mg/kg	-	-	-	< 0.2
o-Xylene	0.1	mg/kg	-	-	-	< 0.1
Xylenes - Total	0.3	mg/kg	-	-	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	-	-	88
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	400	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	110	< 100
Volatile Organics						
1.1-Dichloroethane	0.05	mg/kg	-	-	< 0.05	-
1.1-Dichloroethene	0.05	mg/kg	-	-	< 0.05	-
1.1.1-Trichloroethane	0.05	mg/kg	-	-	< 0.05	-
1.1.1.2-Tetrachloroethane	0.05	mg/kg	-	-	< 0.05	-
1.1.2-Trichloroethane	0.05	mg/kg	-	-	< 0.05	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dibromoethane	0.05	mg/kg	-	-	< 0.05	-
1.2-Dichlorobenzene	0.05	mg/kg	-	-	< 0.05	-
1.2-Dichloroethane	0.05	mg/kg	-	-	< 0.05	-
1.2-Dichloropropane	0.05	mg/kg	-	-	< 0.05	-
1.2.3-Trichloropropane	0.05	mg/kg	-	-	< 0.05	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC065 3.0-3.2 Soil S14-Ja04121 Jan 09, 2014	FC066 0.5-0.7 Soil S14-Ja04124 Jan 09, 2014	FC066 1.5-1.7 Soil S14-Ja04125 Jan 09, 2014	FC066 2.5-2.7 Soil S14-Ja04126 Jan 09, 2014
Volatile Organics						
1.2.4-Trimethylbenzene	0.05	mg/kg	-	-	< 0.05	-
1.3-Dichlorobenzene	0.05	mg/kg	-	-	< 0.05	-
1.3-Dichloropropane	0.05	mg/kg	-	-	< 0.05	-
1.3.5-Trimethylbenzene	0.05	mg/kg	-	-	< 0.05	-
1.4-Dichlorobenzene	0.05	mg/kg	-	-	< 0.05	-
2-Butanone (MEK)	0.05	mg/kg	-	-	< 0.05	-
4-Chlorotoluene	0.05	mg/kg	-	-	< 0.05	-
4-Methyl-2-pentanone (MIBK)	0.05	mg/kg	-	-	< 0.05	-
Benzene	0.1	mg/kg	-	-	< 0.1	-
Bromobenzene	0.05	mg/kg	-	-	< 0.05	-
Bromochloromethane	0.05	mg/kg	-	-	< 0.05	-
Bromodichloromethane	0.05	mg/kg	-	-	< 0.05	-
Bromoform	0.05	mg/kg	-	-	< 0.05	-
Bromomethane	0.05	mg/kg	-	-	< 0.05	-
Carbon disulfide	0.05	mg/kg	-	-	< 0.05	-
Carbon Tetrachloride	0.05	mg/kg	-	-	< 0.05	-
Chlorobenzene	0.05	mg/kg	-	-	< 0.05	-
Chloroethane	0.05	mg/kg	-	-	< 0.05	-
Chloroform	0.05	mg/kg	-	-	< 0.05	-
Chloromethane	0.05	mg/kg	-	-	< 0.05	-
cis-1.2-Dichloroethene	0.05	mg/kg	-	-	< 0.05	-
cis-1.3-Dichloropropene	0.05	mg/kg	-	-	< 0.05	-
Dibromochloromethane	0.05	mg/kg	-	-	< 0.05	-
Dibromomethane	0.5	mg/kg	-	-	< 0.5	-
Dichlorodifluoromethane	0.05	mg/kg	-	-	< 0.05	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-
Iodomethane	0.05	mg/kg	-	-	< 0.05	-
Isopropyl benzene (Cumene)	0.05	mg/kg	-	-	< 0.05	-
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-
Methylene Chloride	0.05	mg/kg	-	-	< 0.05	-
o-Xylene	0.1	mg/kg	-	-	< 0.1	-
Styrene	0.05	mg/kg	-	-	< 0.05	-
Tetrachloroethene	0.05	mg/kg	-	-	< 0.05	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
trans-1.2-Dichloroethene	0.05	mg/kg	-	-	< 0.05	-
trans-1.3-Dichloropropene	0.05	mg/kg	-	-	< 0.05	-
Trichloroethene	0.05	mg/kg	-	-	< 0.05	-
Trichlorofluoromethane	0.05	mg/kg	-	-	< 0.05	-
Vinyl chloride	0.05	mg/kg	-	-	< 0.05	-
Xylenes - Total	0.3	mg/kg	-	-	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	-	-	87	-
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	0.5	1.4	-	0.8
Benzo(a)pyrene	0.5	mg/kg	0.8	1.5	-	0.9
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	0.7	1.3	-	0.9
Benzo(g.h.i)perylene	0.5	mg/kg	0.6	1.0	-	0.7

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC065 3.0-3.2 Soil S14-Ja04121 Jan 09, 2014	FC066 0.5-0.7 Soil S14-Ja04124 Jan 09, 2014	FC066 1.5-1.7 Soil S14-Ja04125 Jan 09, 2014	FC066 2.5-2.7 Soil S14-Ja04126 Jan 09, 2014
Polycyclic Aromatic Hydrocarbons						
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	0.8	-	< 0.5
Chrysene	0.5	mg/kg	0.5	1.2	-	0.7
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Fluoranthene	0.5	mg/kg	0.7	2.4	-	1.4
Fluorene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	0.8	-	0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	0.9	-	0.7
Pyrene	0.5	mg/kg	0.8	2.4	-	1.4
Total PAH	0.5	mg/kg	4.6	14	-	8.0
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	0.9	2.0	-	1.1
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	1.2	2.2	-	1.4
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	1.5	2.5	-	1.7
2-Fluorobiphenyl (surr.)	1	%	87	90	-	86
p-Terphenyl-d14 (surr.)	1	%	104	107	-	102
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	-	-	< 0.05
a-BHC	0.05	mg/kg	-	-	-	< 0.05
Aldrin	0.05	mg/kg	-	-	-	< 0.05
b-BHC	0.05	mg/kg	-	-	-	< 0.05
d-BHC	0.05	mg/kg	-	-	-	< 0.05
Dieldrin	0.05	mg/kg	-	-	-	< 0.05
Endosulfan I	0.05	mg/kg	-	-	-	< 0.05
Endosulfan II	0.05	mg/kg	-	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	-	-	< 0.05
Endrin	0.05	mg/kg	-	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	-	-	< 0.05
Endrin ketone	0.05	mg/kg	-	-	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	-	-	< 0.05
Heptachlor	0.05	mg/kg	-	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	-	< 0.05
Methoxychlor	0.2	mg/kg	-	-	-	< 0.2
Toxaphene	1	mg/kg	-	-	-	< 1
Dibutylchlorendate (surr.)	1	%	-	-	-	95
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	79
Polychlorinated Biphenyls (PCB)						
Aroclor-1016	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1232	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1242	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1248	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1254	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1260	0.5	mg/kg	-	-	-	< 0.5
Total PCB	0.5	mg/kg	-	-	-	< 0.5
Dibutylchlorendate (surr.)	1	%	-	-	-	95

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC065 3.0-3.2 Soil S14-Ja04121 Jan 09, 2014	FC066 0.5-0.7 Soil S14-Ja04124 Jan 09, 2014	FC066 1.5-1.7 Soil S14-Ja04125 Jan 09, 2014	FC066 2.5-2.7 Soil S14-Ja04126 Jan 09, 2014
Conductivity (1:5 aqueous extract at 25°C)	5	uS/cm	-	150	-	140
pH (1:5 Aqueous extract)	0.1	units	-	8.7	-	8.7
% Moisture	0.1	%	14	9.4	11	8.8
Heavy Metals						
Arsenic	2	mg/kg	15	3.9	3.8	6.6
Cadmium	0.4	mg/kg	< 0.4	0.8	3.6	1.3
Chromium	5	mg/kg	< 5	11	12	11
Copper	5	mg/kg	77	190	170	140
Lead	5	mg/kg	140	310	300	180
Mercury	0.05	mg/kg	0.33	0.83	0.51	0.39
Nickel	5	mg/kg	< 5	33	18	12
Zinc	5	mg/kg	160	260	380	190

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC066 3.1-3.3 Soil S14-Ja04127 Jan 09, 2014	FC067 0.5-0.6 Soil S14-Ja04130 Jan 09, 2014	FC067 0.9-1.1 Soil S14-Ja04131 Jan 09, 2014	FC067 3.1-3.3 Soil S14-Ja04133 Jan 09, 2014
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	61	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-36 (Total)	50	mg/kg	< 50	61	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	-	< 0.1
Toluene	0.1	mg/kg	< 0.1	-	-	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	-	-	< 0.1
Xylenes - Total	0.3	mg/kg	< 0.3	-	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	88	-	-	82
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	0.7	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	2.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	2.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	2.6	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	1.6	< 0.5	< 0.5

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC066 3.1-3.3 Soil S14-Ja04127 Jan 09, 2014	FC067 0.5-0.6 Soil S14-Ja04130 Jan 09, 2014	FC067 0.9-1.1 Soil S14-Ja04131 Jan 09, 2014	FC067 3.1-3.3 Soil S14-Ja04133 Jan 09, 2014
Polycyclic Aromatic Hydrocarbons						
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	1.2	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	2.2	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	4.7	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	1.3	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	1.2	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	4.6	< 0.5	< 0.5
Total PAH	0.5	mg/kg	< 0.5	25	< 0.5	< 0.5
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	< 0.5	3.3	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	0.6	3.5	0.6	0.6
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	1.2	3.8	1.2	1.2
2-Fluorobiphenyl (surr.)	1	%	94	86	72	84
p-Terphenyl-d14 (surr.)	1	%	110	100	70	97
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	-	-	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	-	-	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	-	-	< 0.05
a-BHC	0.05	mg/kg	< 0.05	-	-	< 0.05
Aldrin	0.05	mg/kg	< 0.05	-	-	< 0.05
b-BHC	0.05	mg/kg	< 0.05	-	-	< 0.05
d-BHC	0.05	mg/kg	< 0.05	-	-	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	-	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	-	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	< 0.05
Methoxychlor	0.2	mg/kg	< 0.2	-	-	< 0.2
Toxaphene	1	mg/kg	< 1	-	-	< 1
Dibutylchlorendate (surr.)	1	%	100	-	-	102
Tetrachloro-m-xylene (surr.)	1	%	82	-	-	88
Polychlorinated Biphenyls (PCB)						
Aroclor-1016	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1232	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1242	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1248	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1254	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1260	0.5	mg/kg	-	-	-	< 0.5
Total PCB	0.5	mg/kg	-	-	-	< 0.5
Dibutylchlorendate (surr.)	1	%	-	-	-	102

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC066 3.1-3.3 Soil S14-Ja04127 Jan 09, 2014	FC067 0.5-0.6 Soil S14-Ja04130 Jan 09, 2014	FC067 0.9-1.1 Soil S14-Ja04131 Jan 09, 2014	FC067 3.1-3.3 Soil S14-Ja04133 Jan 09, 2014
Conductivity (1:5 aqueous extract at 25°C)	5	uS/cm	260	160	-	120
pH (1:5 Aqueous extract)	0.1	units	8.4	8.3	-	8.4
% Moisture	0.1	%	8.4	7.8	18	15
Initial Weight	0.01	kg	5.8	-	-	-
Heavy Metals						
Arsenic	2	mg/kg	5.8	4.5	< 2	< 2
Cadmium	0.4	mg/kg	< 0.4	0.6	< 0.4	0.4
Chromium	5	mg/kg	< 5	6.4	< 5	< 5
Copper	5	mg/kg	280	250	45	72
Lead	5	mg/kg	10	320	43	180
Mercury	0.05	mg/kg	< 0.05	0.27	0.28	1.1
Nickel	5	mg/kg	< 5	12	7.2	7.6
Zinc	5	mg/kg	37	260	64	220
Foreign Material - Type I						
Metal*	0.1	%	< 0.1	-	-	-
Glass*	0.1	%	< 0.1	-	-	-
Asphalt*	0.1	%	< 0.1	-	-	-
Stone*	0.1	%	0.6	-	-	-
Ceramic and slag (other than blast furnace slag)*	0.1	%	< 0.1	-	-	-
Foreign Material - Type II						
Plaster*	0.1	%	< 0.1	-	-	-
Clay lumps and other friable material*	0.1	%	0.2	-	-	-
Foreign Material - Type III						
Rubber*	0.05	%	< 0.05	-	-	-
Plastic*	0.05	%	< 0.05	-	-	-
Bitumen*	0.05	%	< 0.05	-	-	-
Paper*	0.05	%	< 0.05	-	-	-
Cloth*	0.05	%	< 0.05	-	-	-
Paint*	0.05	%	< 0.05	-	-	-
Wood and other vegetable matter*	0.05	%	< 0.05	-	-	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC068 0.1-0.2 Soil S14-Ja04135 Jan 09, 2014	FC068 1.1-1.3 Soil S14-Ja04137 Jan 09, 2014	FC068 4.8-5.0 Soil S14-Ja04139 Jan 09, 2014
Total Recoverable Hydrocarbons - 1999 NEPM Fractions					
TRH C6-C9	20	mg/kg	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	69	55	370
TRH C29-C36	50	mg/kg	75	< 50	480
TRH C10-36 (Total)	50	mg/kg	140	55	850
BTEX					
Benzene	0.1	mg/kg	-	-	< 0.1
Toluene	0.1	mg/kg	-	-	< 0.1
Ethylbenzene	0.1	mg/kg	-	-	< 0.1
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC068 0.1-0.2 Soil S14-Ja04135 Jan 09, 2014	FC068 1.1-1.3 Soil S14-Ja04137 Jan 09, 2014	FC068 4.8-5.0 Soil S14-Ja04139 Jan 09, 2014
BTEX					
o-Xylene	0.1	mg/kg	-	-	< 0.1
Xylenes - Total	0.3	mg/kg	-	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	-	86
Total Recoverable Hydrocarbons - 2013 NEPM Fractions					
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	120	< 100	790
TRH >C34-C40	100	mg/kg	< 100	< 100	340
Polycyclic Aromatic Hydrocarbons					
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	1.7	1.4	0.9
Benzo(a)pyrene	0.5	mg/kg	1.8	1.5	1.0
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	1.9	1.7	1.0
Benzo(g.h.i)perylene	0.5	mg/kg	1.1	1.0	1.1
Benzo(k)fluoranthene	0.5	mg/kg	0.8	0.8	0.5
Chrysene	0.5	mg/kg	1.6	1.3	0.8
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	3.0	2.3	1.4
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	0.9	0.8	0.7
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	1.2	1.1	0.8
Pyrene	0.5	mg/kg	2.7	2.4	1.5
Total PAH	0.5	mg/kg	17	14	9.7
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	2.4	2.0	1.4
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	2.6	2.3	1.6
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	2.9	2.5	1.9
2-Fluorobiphenyl (surr.)	1	%	105	87	83
p-Terphenyl-d14 (surr.)	1	%	124	104	98
Organochlorine Pesticides					
Chlordanes - Total	0.1	mg/kg	-	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	-	< 0.05
a-BHC	0.05	mg/kg	-	-	< 0.05
Aldrin	0.05	mg/kg	-	-	< 0.05
b-BHC	0.05	mg/kg	-	-	< 0.05
d-BHC	0.05	mg/kg	-	-	< 0.05
Dieldrin	0.05	mg/kg	-	-	< 0.05
Endosulfan I	0.05	mg/kg	-	-	< 0.05
Endosulfan II	0.05	mg/kg	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	-	< 0.05
Endrin	0.05	mg/kg	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	-	< 0.05

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC068 0.1-0.2 Soil S14-Ja04135 Jan 09, 2014	FC068 1.1-1.3 Soil S14-Ja04137 Jan 09, 2014	FC068 4.8-5.0 Soil S14-Ja04139 Jan 09, 2014
Organochlorine Pesticides					
Endrin ketone	0.05	mg/kg	-	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	-	< 0.05
Heptachlor	0.05	mg/kg	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	< 0.05
Methoxychlor	0.2	mg/kg	-	-	< 0.2
Toxaphene	1	mg/kg	-	-	< 1
Dibutylchlorendate (surr.)	1	%	-	-	79
Tetrachloro-m-xylene (surr.)	1	%	-	-	73
Polychlorinated Biphenyls (PCB)					
Aroclor-1016	0.5	mg/kg	-	-	< 0.5
Aroclor-1232	0.5	mg/kg	-	-	< 0.5
Aroclor-1242	0.5	mg/kg	-	-	< 0.5
Aroclor-1248	0.5	mg/kg	-	-	< 0.5
Aroclor-1254	0.5	mg/kg	-	-	< 0.5
Aroclor-1260	0.5	mg/kg	-	-	< 0.5
Total PCB	0.5	mg/kg	-	-	< 0.5
Dibutylchlorendate (surr.)	1	%	-	-	79
% Moisture	0.1	%	5.3	17	8.9
Heavy Metals					
Arsenic	2	mg/kg	4.3	5.2	2.6
Cadmium	0.4	mg/kg	2.2	3.4	0.8
Chromium	5	mg/kg	20	13	5.8
Copper	5	mg/kg	450	190	82
Lead	5	mg/kg	350	430	340
Mercury	0.05	mg/kg	0.60	2.0	0.31
Nickel	5	mg/kg	23	16	5.8
Zinc	5	mg/kg	420	590	240

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Jan 23, 2014	14 Day
- Method: E004 Petroleum Hydrocarbons (TPH)			
BTEX	Sydney	Jan 23, 2014	14 Day
- Method: E029/E016 BTEX			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jan 23, 2014	14 Day
- Method: LM-LTM-ORG2010			
Polycyclic Aromatic Hydrocarbons	Sydney	Jan 23, 2014	14 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Organochlorine Pesticides	Sydney	Jan 23, 2014	14 Day
- Method: E013 Organochlorine Pesticides (OC)			
Polychlorinated Biphenyls (PCB)	Sydney	Jan 23, 2014	28 Day
- Method: E013 Polychlorinated Biphenyls (PCB)			
Metals M8	Sydney	Jan 23, 2014	28 Day
- Method: E022 Acid Extractable metals in Soils & E026 Mercury			
Volatile Organics	Sydney	Jan 15, 2014	7 Day
- Method: E016 Volatile Organic Compounds (VOC)			
Conductivity (1:5 aqueous extract at 25°C)	Sydney	Jan 23, 2014	7 Day
- Method: E032.2 Electrical Conductivity (EC)			
pH (1:5 Aqueous extract)	Sydney	Jan 23, 2014	7 Day
- Method: E018.2 pH			
% Moisture	Sydney	Jan 23, 2014	28 Day
- Method: E005 Moisture Content			
Foreign Material - Type I	Sydney	Jan 14, 2014	180 Day
- Method: RTA Method T276			
Foreign Material - Type II	Sydney	Jan 14, 2014	180 Day
- Method: RTA Method T276			
Foreign Material - Type III	Sydney	Jan 14, 2014	180 Day
- Method: RTA Method T276			

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Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: GREEN SQUARE DEVELOPMENT BLOCK 17 43182

Order No.:
Report #: 405524
Phone: 02 8245 0300
Fax:

Received: Jan 13, 2014 5:00 PM
Due: Jan 22, 2014
Priority: 6 Day
Contact Name: Grace Ng - INV

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Metals M8	BTEX	Polychlorinated Biphenyls (PCB)	Total Recoverable Hydrocarbons	Foreign Materials - ENM	Volatile Organics	JBS&G Suite 2
Laboratory where analysis is conducted																	
Melbourne Laboratory - NATA Site # 1254 & 14271																	
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																	
External Laboratory																	
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**													
FC064 0.1-0.2	Jan 09, 2014		Soil	S14-Ja04111	X	X		X	X	X	X			X			
FC064 0.5-0.7	Jan 09, 2014		Soil	S14-Ja04112	X				X		X		X	X			
FC064 1.9-2.1	Jan 09, 2014		Soil	S14-Ja04113			X										
FC064 3.1-3.3	Jan 09, 2014		Soil	S14-Ja04114	X				X		X			X			
FC064 3.8-4.0	Jan 09, 2014		Soil	S14-Ja04115			X										
FC064 4.7-4.9	Jan 09, 2014		Soil	S14-Ja04116	X	X		X	X		X	X		X			
FC065 1.0-1.2	Jan 09, 2014		Soil	S14-Ja04117	X	X		X									X
FC065 0.5-0.7	Jan 09, 2014		Soil	S14-Ja04118	X	X		X	X		X			X			
FC065 2.3-2.5	Jan 09, 2014		Soil	S14-Ja04120	X	X		X	X	X	X			X			
FC065 3.0-3.2	Jan 09, 2014		Soil	S14-Ja04121	X				X		X			X			

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Site # 1254 & 14271

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Murarrie QLD 4172
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NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: GREEN SQUARE DEVELOPMENT BLOCK 17 43182

Order No.:
Report #: 405524
Phone: 02 8245 0300
Fax:

Received: Jan 13, 2014 5:00 PM
Due: Jan 22, 2014
Priority: 6 Day
Contact Name: Grace Ng - INV

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Metals M8	BTEX	Polychlorinated Biphenyls (PCB)	Total Recoverable Hydrocarbons	Foreign Materials - ENM	Volatile Organics	JBS&G Suite 2
Laboratory where analysis is conducted																	
Melbourne Laboratory - NATA Site # 1254 & 14271																	
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																	
External Laboratory																	
FC065 4.5-4.7	Jan 09, 2014		Soil	S14-Ja04122			X										
FC066 0.1-0.2	Jan 09, 2014		Soil	S14-Ja04123			X										
FC066 0.5-0.7	Jan 09, 2014		Soil	S14-Ja04124	X	X		X	X		X			X			
FC066 1.5-1.7	Jan 09, 2014		Soil	S14-Ja04125	X						X			X		X	
FC066 2.5-2.7	Jan 09, 2014		Soil	S14-Ja04126	X	X		X									X
FC066 3.1-3.3	Jan 09, 2014		Soil	S14-Ja04127	X	X		X	X	X	X	X		X	X		
FC066 4.5-4.7	Jan 09, 2014		Soil	S14-Ja04128			X										
FC067 0.1-0.2	Jan 09, 2014		Soil	S14-Ja04129			X										
FC067 0.5-0.6	Jan 09, 2014		Soil	S14-Ja04130	X	X		X	X		X			X			
FC067 0.9-1.1	Jan 09, 2014		Soil	S14-Ja04131	X				X		X			X			
FC067 1.9-2.1	Jan 09, 2014		Soil	S14-Ja04132			X										

eurofins | mgt

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Laboratory where analysis is conducted																	
Melbourne Laboratory - NATA Site # 1254 & 14271																	
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																	
External Laboratory																	
FC067 3.1-3.3	Jan 09, 2014		Soil	S14-Ja04133	X	X		X									X
FC067 4.5-4.7	Jan 09, 2014		Soil	S14-Ja04134			X										
FC068 0.1-0.2	Jan 09, 2014		Soil	S14-Ja04135	X				X		X			X			
FC068 0.6-0.8	Jan 09, 2014		Soil	S14-Ja04136			X										
FC068 1.1-1.3	Jan 09, 2014		Soil	S14-Ja04137	X				X		X			X			
FC068 3.8-4.0	Jan 09, 2014		Soil	S14-Ja04138			X										
FC068 4.8-5.0	Jan 09, 2014		Soil	S14-Ja04139	X												X
FC068 1.8-2.0	Jan 09, 2014		Soil	S14-Ja04187			X										
FC065 0.1-0.2	Jan 09, 2014		Soil	S14-Ja09907	X	X		X									X

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH C6-C10 less BTEX (F1)	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/kg	< 0.05			0.05	Pass	
1.1-Dichloroethene	mg/kg	< 0.05			0.05	Pass	
1.1.1-Trichloroethane	mg/kg	< 0.05			0.05	Pass	
1.1.1.2-Tetrachloroethane	mg/kg	< 0.05			0.05	Pass	
1.1.2-Trichloroethane	mg/kg	< 0.05			0.05	Pass	
1.1.2.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dibromoethane	mg/kg	< 0.05			0.05	Pass	
1.2-Dichlorobenzene	mg/kg	< 0.05			0.05	Pass	
1.2-Dichloroethane	mg/kg	< 0.05			0.05	Pass	
1.2-Dichloropropane	mg/kg	< 0.05			0.05	Pass	
1.2.3-Trichloropropane	mg/kg	< 0.05			0.05	Pass	
1.2.4-Trimethylbenzene	mg/kg	< 0.05			0.05	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.05			0.05	Pass	
1.3-Dichloropropane	mg/kg	< 0.05			0.05	Pass	
1.3.5-Trimethylbenzene	mg/kg	< 0.05			0.05	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.05			0.05	Pass	
2-Butanone (MEK)	mg/kg	< 0.05			0.05	Pass	
4-Chlorotoluene	mg/kg	< 0.05			0.05	Pass	
4-Methyl-2-pentanone (MIBK)	mg/kg	< 0.05			0.05	Pass	
Benzene	mg/kg	< 0.1			0.1	Pass	
Bromobenzene	mg/kg	< 0.05			0.05	Pass	
Bromochloromethane	mg/kg	< 0.05			0.05	Pass	
Bromodichloromethane	mg/kg	< 0.05			0.05	Pass	
Bromoform	mg/kg	< 0.05			0.05	Pass	
Bromomethane	mg/kg	< 0.05			0.05	Pass	
Carbon disulfide	mg/kg	< 0.05			0.05	Pass	
Carbon Tetrachloride	mg/kg	< 0.05			0.05	Pass	
Chlorobenzene	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Chloroethane	mg/kg	< 0.05			0.05	Pass	
Chloroform	mg/kg	< 0.05			0.05	Pass	
Chloromethane	mg/kg	< 0.05			0.05	Pass	
cis-1.2-Dichloroethene	mg/kg	< 0.05			0.05	Pass	
cis-1.3-Dichloropropene	mg/kg	< 0.05			0.05	Pass	
Dibromochloromethane	mg/kg	< 0.05			0.05	Pass	
Dibromomethane	mg/kg	< 0.5			0.5	Pass	
Dichlorodifluoromethane	mg/kg	< 0.05			0.05	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
Iodomethane	mg/kg	< 0.05			0.05	Pass	
Isopropyl benzene (Cumene)	mg/kg	< 0.05			0.05	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
Methylene Chloride	mg/kg	< 0.05			0.05	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Styrene	mg/kg	< 0.05			0.05	Pass	
Tetrachloroethene	mg/kg	< 0.05			0.05	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
trans-1.2-Dichloroethene	mg/kg	< 0.05			0.05	Pass	
trans-1.3-Dichloropropene	mg/kg	< 0.05			0.05	Pass	
Trichloroethene	mg/kg	< 0.05			0.05	Pass	
Trichlorofluoromethane	mg/kg	< 0.05			0.05	Pass	
Vinyl chloride	mg/kg	< 0.05			0.05	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-BHC	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-BHC	mg/kg	< 0.05			0.05	Pass	
d-BHC	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-BHC (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.2			0.2	Pass	
Toxaphene	mg/kg	< 1			1	Pass	
Method Blank							
Polychlorinated Biphenyls (PCB)							
Aroclor-1016	mg/kg	< 0.5			0.5	Pass	
Aroclor-1232	mg/kg	< 0.5			0.5	Pass	
Aroclor-1242	mg/kg	< 0.5			0.5	Pass	
Aroclor-1248	mg/kg	< 0.5			0.5	Pass	
Aroclor-1254	mg/kg	< 0.5			0.5	Pass	
Aroclor-1260	mg/kg	< 0.5			0.5	Pass	
Total PCB	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.05			0.05	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	79			70-130	Pass	
TRH C10-C14	%	78			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	98			70-130	Pass	
Toluene	%	99			70-130	Pass	
Ethylbenzene	%	94			70-130	Pass	
m&p-Xylenes	%	97			70-130	Pass	
o-Xylene	%	96			70-130	Pass	
Xylenes - Total	%	97			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	109			70-130	Pass	
TRH C6-C10	%	83			70-130	Pass	
TRH >C10-C16	%	83			70-130	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethane	%	96			75-125	Pass	
1.1-Dichloroethene	%	99			70-130	Pass	
1.1.1-Trichloroethane	%	96			70-130	Pass	
1.1.1.2-Tetrachloroethane	%	99			70-130	Pass	
1.1.2-Trichloroethane	%	108			70-130	Pass	
1.1.2.2-Tetrachloroethane	%	120			70-130	Pass	
1.2-Dibromoethane	%	111			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
1.2-Dichlorobenzene	%	105			70-130	Pass	
1.2-Dichloroethane	%	104			70-130	Pass	
1.2-Dichloropropane	%	101			70-130	Pass	
1.2.3-Trichloropropane	%	119			70-130	Pass	
1.2.4-Trimethylbenzene	%	104			70-130	Pass	
1.3-Dichlorobenzene	%	106			70-130	Pass	
1.3-Dichloropropane	%	110			70-130	Pass	
1.3.5-Trimethylbenzene	%	106			70-130	Pass	
1.4-Dichlorobenzene	%	107			70-130	Pass	
2-Butanone (MEK)	%	112			70-130	Pass	
4-Chlorotoluene	%	107			70-130	Pass	
4-Methyl-2-pentanone (MIBK)	%	115			70-130	Pass	
Benzene	%	102			70-130	Pass	
Bromobenzene	%	111			70-130	Pass	
Bromochloromethane	%	99			70-130	Pass	
Bromodichloromethane	%	99			70-130	Pass	
Bromoform	%	104			70-130	Pass	
Bromomethane	%	98			70-130	Pass	
Carbon disulfide	%	116			70-130	Pass	
Carbon Tetrachloride	%	95			70-130	Pass	
Chlorobenzene	%	102			70-130	Pass	
Chloroethane	%	97			70-130	Pass	
Chloroform	%	98			70-130	Pass	
Chloromethane	%	89			70-130	Pass	
cis-1.2-Dichloroethene	%	99			70-130	Pass	
cis-1.3-Dichloropropene	%	100			70-130	Pass	
Dibromochloromethane	%	104			70-130	Pass	
Dibromomethane	%	86			70-130	Pass	
Ethylbenzene	%	103			70-130	Pass	
Iodomethane	%	92			75-125	Pass	
Isopropyl benzene (Cumene)	%	102			70-130	Pass	
m&p-Xylenes	%	104			70-130	Pass	
Methylene Chloride	%	101			70-130	Pass	
o-Xylene	%	104			70-130	Pass	
Styrene	%	105			70-130	Pass	
Tetrachloroethene	%	105			70-130	Pass	
Toluene	%	105			70-130	Pass	
trans-1.2-Dichloroethene	%	98			70-130	Pass	
trans-1.3-Dichloropropene	%	100			70-130	Pass	
Trichloroethene	%	100			70-130	Pass	
Trichlorofluoromethane	%	91			70-130	Pass	
Vinyl chloride	%	87			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	129			70-130	Pass	
Acenaphthylene	%	128			70-130	Pass	
Anthracene	%	129			70-130	Pass	
Benz(a)anthracene	%	123			70-130	Pass	
Benzo(a)pyrene	%	124			70-130	Pass	
Benzo(b&j)fluoranthene	%	115			70-130	Pass	
Benzo(g.h.i)perylene	%	121			70-130	Pass	
Benzo(k)fluoranthene	%	129			70-130	Pass	
Chrysene	%	130			70-130	Pass	
Dibenz(a.h)anthracene	%	123			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Fluoranthene	%	125			70-130	Pass	
Fluorene	%	127			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	120			70-130	Pass	
Naphthalene	%	128			70-130	Pass	
Phenanthrene	%	125			70-130	Pass	
Pyrene	%	119			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	107			70-130	Pass	
4.4'-DDD	%	124			70-130	Pass	
4.4'-DDE	%	111			70-130	Pass	
4.4'-DDT	%	97			70-130	Pass	
a-BHC	%	111			70-130	Pass	
Aldrin	%	114			70-130	Pass	
b-BHC	%	116			70-130	Pass	
d-BHC	%	113			70-130	Pass	
Dieldrin	%	107			70-130	Pass	
Endosulfan I	%	108			70-130	Pass	
Endosulfan II	%	109			70-130	Pass	
Endosulfan sulphate	%	108			70-130	Pass	
Endrin	%	104			70-130	Pass	
Endrin aldehyde	%	108			70-130	Pass	
Endrin ketone	%	108			70-130	Pass	
g-BHC (Lindane)	%	108			70-130	Pass	
Heptachlor	%	96			70-130	Pass	
Heptachlor epoxide	%	105			70-130	Pass	
Hexachlorobenzene	%	84			70-130	Pass	
Methoxychlor	%	96			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls (PCB)							
Aroclor-1260	%	101			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	96			70-130	Pass	
Cadmium	%	108			70-130	Pass	
Chromium	%	82			70-130	Pass	
Copper	%	109			70-130	Pass	
Lead	%	102			70-130	Pass	
Mercury	%	104			70-130	Pass	
Nickel	%	99			70-130	Pass	
Zinc	%	108			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S14-Ja04111	CP	%	87			70-130	Pass	
TRH C10-C14	S14-Ja04111	CP	%	84			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S14-Ja04111	CP	%	95			70-130	Pass	
Toluene	S14-Ja04111	CP	%	96			70-130	Pass	
Ethylbenzene	S14-Ja04111	CP	%	96			70-130	Pass	
m&p-Xylenes	S14-Ja04111	CP	%	105			70-130	Pass	
o-Xylene	S14-Ja04111	CP	%	102			70-130	Pass	
Xylenes - Total	S14-Ja04111	CP	%	104			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S14-Ja04111	CP	%	109			70-130	Pass	
TRH C6-C10	S14-Ja04111	CP	%	97			70-130	Pass	
TRH >C10-C16	S14-Ja04111	CP	%	91			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S14-Ja04111	CP	%	96			70-130	Pass	
4.4'-DDD	S14-Ja04111	CP	%	120			70-130	Pass	
4.4'-DDE	S14-Ja04111	CP	%	106			70-130	Pass	
4.4'-DDT	S14-Ja04111	CP	%	86			70-130	Pass	
a-BHC	S14-Ja04111	CP	%	109			70-130	Pass	
Aldrin	S14-Ja04111	CP	%	100			70-130	Pass	
b-BHC	S14-Ja04111	CP	%	109			70-130	Pass	
d-BHC	S14-Ja04111	CP	%	109			70-130	Pass	
Dieldrin	S14-Ja04111	CP	%	98			70-130	Pass	
Endosulfan I	S14-Ja04111	CP	%	99			70-130	Pass	
Endosulfan II	S14-Ja04111	CP	%	94			70-130	Pass	
Endosulfan sulphate	S14-Ja04111	CP	%	96			70-130	Pass	
Endrin	S14-Ja04111	CP	%	107			70-130	Pass	
Endrin aldehyde	S14-Ja04111	CP	%	92			70-130	Pass	
Endrin ketone	S14-Ja04111	CP	%	102			70-130	Pass	
g-BHC (Lindane)	S14-Ja04111	CP	%	106			70-130	Pass	
Heptachlor	S14-Ja04111	CP	%	96			70-130	Pass	
Heptachlor epoxide	S14-Ja04111	CP	%	101			70-130	Pass	
Hexachlorobenzene	S14-Ja04111	CP	%	83			70-130	Pass	
Methoxychlor	S14-Ja04111	CP	%	103			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Chromium	S14-Ja04111	CP	%	105			70-130	Pass	
Copper	S14-Ja03640	NCP	%	99			70-130	Pass	
Lead	S14-Ja04440	NCP	%	92			70-130	Pass	
Zinc	S14-Ja04440	NCP	%	82			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls (PCB)				Result 1					
Aroclor-1260	S14-Ja07804	NCP	%	85			70-130	Pass	
Spike - % Recovery									
Volatile Organics				Result 1					
1.1-Dichloroethane	S14-Ja03494	NCP	%	90			75-125	Pass	
1.1-Dichloroethene	S14-Ja03494	NCP	%	95			70-130	Pass	
1.1.1-Trichloroethane	S14-Ja03494	NCP	%	89			70-130	Pass	
1.1.1.2-Tetrachloroethane	S14-Ja03494	NCP	%	97			70-130	Pass	
1.1.2-Trichloroethane	S14-Ja03494	NCP	%	102			70-130	Pass	
1.1.2.2-Tetrachloroethane	S14-Ja03494	NCP	%	118			70-130	Pass	
1.2-Dibromoethane	S14-Ja03494	NCP	%	105			70-130	Pass	
1.2-Dichlorobenzene	S14-Ja03494	NCP	%	97			70-130	Pass	
1.2-Dichloroethane	S14-Ja03494	NCP	%	95			70-130	Pass	
1.2-Dichloropropane	S14-Ja03494	NCP	%	96			70-130	Pass	
1.2.3-Trichloropropane	S14-Ja03494	NCP	%	110			70-130	Pass	
1.2.4-Trimethylbenzene	S14-Ja03494	NCP	%	98			70-130	Pass	
1.3-Dichlorobenzene	S14-Ja03494	NCP	%	98			70-130	Pass	
1.3-Dichloropropane	S14-Ja03494	NCP	%	104			70-130	Pass	
1.3.5-Trimethylbenzene	S14-Ja03494	NCP	%	99			70-130	Pass	
1.4-Dichlorobenzene	S14-Ja03494	NCP	%	99			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
2-Butanone (MEK)	S14-Ja03494	NCP	%	103			70-130	Pass	
4-Chlorotoluene	S14-Ja03494	NCP	%	99			70-130	Pass	
4-Methyl-2-pentanone (MIBK)	S14-Ja03494	NCP	%	103			70-130	Pass	
Bromobenzene	S14-Ja03494	NCP	%	102			70-130	Pass	
Bromochloromethane	S14-Ja03494	NCP	%	93			70-130	Pass	
Bromodichloromethane	S14-Ja03494	NCP	%	93			70-130	Pass	
Bromoform	S14-Ja03494	NCP	%	97			70-130	Pass	
Bromomethane	S14-Ja03494	NCP	%	95			70-130	Pass	
Carbon disulfide	S14-Ja03494	NCP	%	114			70-130	Pass	
Carbon Tetrachloride	S14-Ja03494	NCP	%	88			70-130	Pass	
Chlorobenzene	S14-Ja03494	NCP	%	102			70-130	Pass	
Chloroethane	S14-Ja03494	NCP	%	93			70-130	Pass	
Chloroform	S14-Ja03494	NCP	%	94			70-130	Pass	
Chloromethane	S14-Ja03494	NCP	%	78			70-130	Pass	
cis-1.2-Dichloroethene	S14-Ja03494	NCP	%	93			70-130	Pass	
cis-1.3-Dichloropropene	S14-Ja03494	NCP	%	92			70-130	Pass	
Dibromochloromethane	S14-Ja03494	NCP	%	96			70-130	Pass	
Dibromomethane	S14-Ja03494	NCP	%	90			70-130	Pass	
Iodomethane	S14-Ja03494	NCP	%	88			75-125	Pass	
Isopropyl benzene (Cumene)	S14-Ja03494	NCP	%	102			70-130	Pass	
Methylene Chloride	S14-Ja03494	NCP	%	96			70-130	Pass	
Styrene	S14-Ja03494	NCP	%	101			70-130	Pass	
Tetrachloroethene	S14-Ja03494	NCP	%	101			70-130	Pass	
trans-1.2-Dichloroethene	S14-Ja03494	NCP	%	98			70-130	Pass	
trans-1.3-Dichloropropene	S14-Ja03494	NCP	%	92			70-130	Pass	
Trichloroethene	S14-Ja03494	NCP	%	96			70-130	Pass	
Trichlorofluoromethane	S14-Ja03494	NCP	%	88			70-130	Pass	
Vinyl chloride	S14-Ja03494	NCP	%	85			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S14-Ja04126	CP	%	91			70-130	Pass	
TRH C10-C14	S14-Ja04126	CP	%	77			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S14-Ja04126	CP	%	90			70-130	Pass	
Toluene	S14-Ja04126	CP	%	94			70-130	Pass	
Ethylbenzene	S14-Ja04126	CP	%	89			70-130	Pass	
m&p-Xylenes	S14-Ja04126	CP	%	93			70-130	Pass	
o-Xylene	S14-Ja04126	CP	%	91			70-130	Pass	
Xylenes - Total	S14-Ja04126	CP	%	93			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S14-Ja04126	CP	%	87			70-130	Pass	
TRH C6-C10	S14-Ja04126	CP	%	88			70-130	Pass	
TRH >C10-C16	S14-Ja04126	CP	%	85			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S14-Ja04126	CP	%	129			70-130	Pass	
Acenaphthylene	S14-Ja04126	CP	%	125			70-130	Pass	
Anthracene	S14-Ja04126	CP	%	126			70-130	Pass	
Benz(a)anthracene	S14-Ja04126	CP	%	125			70-130	Pass	
Benzo(a)pyrene	S14-Ja04126	CP	%	123			70-130	Pass	
Benzo(b&j)fluoranthene	S14-Ja04126	CP	%	116			70-130	Pass	
Benzo(g.h.i)perylene	S14-Ja04126	CP	%	115			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Benzo(k)fluoranthene	S14-Ja04126	CP	%	126			70-130	Pass	
Chrysene	S14-Ja04126	CP	%	126			70-130	Pass	
Dibenz(a.h)anthracene	S14-Ja04126	CP	%	124			70-130	Pass	
Fluoranthene	S14-Ja04126	CP	%	126			70-130	Pass	
Fluorene	S14-Ja04126	CP	%	127			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja04126	CP	%	118			70-130	Pass	
Naphthalene	S14-Ja04126	CP	%	124			70-130	Pass	
Phenanthrene	S14-Ja04126	CP	%	120			70-130	Pass	
Pyrene	S14-Ja04126	CP	%	120			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S14-Ja04126	CP	%	92			70-130	Pass	
Cadmium	S14-Ja04126	CP	%	82			70-130	Pass	
Chromium	S14-Ja04126	CP	%	94			70-130	Pass	
Mercury	S14-Ja04126	CP	%	101			70-130	Pass	
Nickel	S14-Ja04126	CP	%	106			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S14-Ja04111	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S14-Ja04111	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S14-Ja04111	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S14-Ja04111	CP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S14-Ja04111	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S14-Ja04111	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S14-Ja04111	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S14-Ja04111	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S14-Ja04111	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total	S14-Ja04111	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S14-Ja04111	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S14-Ja04111	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S14-Ja04111	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S14-Ja04111	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S14-Ja04111	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S14-Ja04111	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S14-Ja04111	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S14-Ja04111	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S14-Ja04111	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S14-Ja04111	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	S14-Ja04111	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S14-Ja04111	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	S14-Ja04111	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-BHC	S14-Ja04111	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S14-Ja04111	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S14-Ja04111	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S14-Ja04111	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S14-Ja04111	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S14-Ja04111	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	

Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Endrin aldehyde	S14-Ja04111	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S14-Ja04111	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	S14-Ja04111	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S14-Ja04111	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S14-Ja04111	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S14-Ja04111	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S14-Ja04111	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Toxaphene	S14-Ja04111	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls (PCB)				Result 1	Result 2	RPD			
Aroclor-1016	S14-Ja04111	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1232	S14-Ja04111	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1242	S14-Ja04111	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1248	S14-Ja04111	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1254	S14-Ja04111	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1260	S14-Ja04111	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S14-Ja04111	CP	mg/kg	41	6.3	150	30%	Fail	Q15
Cadmium	S14-Ja04111	CP	mg/kg	5.3	0.9	140	30%	Fail	Q15
Chromium	S14-Ja04111	CP	mg/kg	26	16	48	30%	Fail	Q15
Copper	S14-Ja04111	CP	mg/kg	160	150	7.0	30%	Pass	
Lead	S14-Ja04111	CP	mg/kg	350	290	21	30%	Pass	
Nickel	S14-Ja04111	CP	mg/kg	62	13	130	30%	Fail	Q15
Zinc	S14-Ja04111	CP	mg/kg	1800	370	130	30%	Fail	Q15
Duplicate									
				Result 1	Result 2	RPD			
Conductivity (1:5 aqueous extract at 25°C)	S14-Ja04117	CP	uS/cm	120	120	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls (PCB)				Result 1	Result 2	RPD			
Aroclor-1016	S14-Ja07789	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1232	S14-Ja07789	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1242	S14-Ja07789	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1248	S14-Ja07789	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1254	S14-Ja07789	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1260	S14-Ja07789	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Conductivity (1:5 aqueous extract at 25°C)	S14-Ja09907	CP	uS/cm	470	430	8.0	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.1-Dichloroethene	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.1.1-Trichloroethane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.1.2-Trichloroethane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	S14-Ja03494	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromoethane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.2-Dichlorobenzene	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.2-Dichloroethane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.2-Dichloropropane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.2.3-Trichloropropane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.2.4-Trimethylbenzene	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	

Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.3-Dichlorobenzene	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.3-Dichloropropane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.3.5-Trimethylbenzene	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.4-Dichlorobenzene	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
2-Butanone (MEK)	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4-Chlorotoluene	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Bromobenzene	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Bromochloromethane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Bromodichloromethane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Bromoform	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Bromomethane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Carbon disulfide	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Carbon Tetrachloride	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Chlorobenzene	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Chloroethane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Chloroform	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Chloromethane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
cis-1.2-Dichloroethene	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
cis-1.3-Dichloropropene	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dibromochloromethane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dibromomethane	S14-Ja03494	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorodifluoromethane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Iodomethane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Isopropyl benzene (Cumene)	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methylene Chloride	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Styrene	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Tetrachloroethene	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
trans-1.2-Dichloroethene	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
trans-1.3-Dichloropropene	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Trichloroethene	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Trichlorofluoromethane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Vinyl chloride	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S14-Ja04126	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S14-Ja04126	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S14-Ja04126	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S14-Ja04126	CP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S14-Ja04126	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S14-Ja04126	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S14-Ja04126	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S14-Ja04126	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S14-Ja04126	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total	S14-Ja04126	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S14-Ja04126	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S14-Ja04126	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S14-Ja04126	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S14-Ja04126	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S14-Ja04126	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S14-Ja04126	CP	mg/kg	< 100	< 100	<1	30%	Pass	

Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S14-Ja04126	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S14-Ja04126	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S14-Ja04126	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S14-Ja04126	CP	mg/kg	0.8	1.0	23	30%	Pass	
Benzo(a)pyrene	S14-Ja04126	CP	mg/kg	0.9	1.1	18	30%	Pass	
Benzo(b&j)fluoranthene	S14-Ja04126	CP	mg/kg	0.9	1.1	21	30%	Pass	
Benzo(g.h.i)perylene	S14-Ja04126	CP	mg/kg	0.7	0.7	5.0	30%	Pass	
Benzo(k)fluoranthene	S14-Ja04126	CP	mg/kg	< 0.5	0.5	22	30%	Pass	
Chrysene	S14-Ja04126	CP	mg/kg	0.7	0.9	22	30%	Pass	
Dibenz(a.h)anthracene	S14-Ja04126	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S14-Ja04126	CP	mg/kg	1.4	1.5	5.0	30%	Pass	
Fluorene	S14-Ja04126	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja04126	CP	mg/kg	0.5	0.5	4.0	30%	Pass	
Naphthalene	S14-Ja04126	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S14-Ja04126	CP	mg/kg	0.7	< 0.5	50	30%	Fail	Q15
Pyrene	S14-Ja04126	CP	mg/kg	1.4	1.5	8.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S14-Ja04126	CP	mg/kg	6.6	4.0	48	30%	Fail	Q15
Cadmium	S14-Ja04126	CP	mg/kg	1.3	2.4	60	30%	Fail	Q15
Chromium	S14-Ja04126	CP	mg/kg	11	14	28	30%	Pass	
Copper	S14-Ja04126	CP	mg/kg	140	150	4.0	30%	Pass	
Lead	S14-Ja04126	CP	mg/kg	180	210	17	30%	Pass	
Mercury	S14-Ja04126	CP	mg/kg	0.39	0.35	12	30%	Pass	
Nickel	S14-Ja04126	CP	mg/kg	12	17	36	30%	Fail	Q15
Zinc	S14-Ja04126	CP	mg/kg	190	270	34	30%	Fail	Q15

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q15	The RPD reported passes Eurofins | mgt's Acceptance Criteria as stipulated in SOP 05. Refer to Glossary Page of this report for further details

Authorised By

Jean Heng	Client Services
Bob Symons	Senior Analyst-Inorganic (NSW)
James Norford	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)
Ryan Hamilton	Senior Analyst-Volatile (NSW)

Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

Eurofins | mgt shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins | mgt be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

eurofins | mgt
Unit F3-F6 Building F, Parkview Building
16 Mars Road, Lane Cove West
NSW 2066

CHAIN OF CUSTODY

#405524

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square Development Block 17
SEND REPORT TO: N Cusson SEND INVOICE TO: G Ng
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: Chris
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: ncusson@jbsg.com.au
QC LEVEL: NEPM (2013)

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	JBS&G SPECIFIC SUITES: JB1	JB1T	JB1A	JB2	JB2A	B10	JB2/JBL	JB3/JBL	JB4	JBL	Metals	TPH (TRH)	PAH	BTEX	pH	EC	OCP	PCB	VOC	LM-276	NOTES:
FC064 0.1-0.2	Soil	9/1/14		Jar + Ice												X	X	X		X	X	X				
FC064 0.5-0.7																X	X	X					X			
FC064 1.9-2.1																X	X	X								
FC064 3.1-3.3																X	X	X								
FC064 3.9-4.0																X	X	X	X	X	X					
FC064 4.7-4.9									X											X	X					
FC065 0.1-0.2																X	X	X		X	X					
FC065 0.5-0.7																X	X	X		X	X	X				
FC065 1.0-1.2																X	X	X								
FC065 2.3-2.5																X	X	X		X	X					
FC065 3.0-3.2																X	X	X								
FC065 4.5-4.7																X	X	X		X	X					
FC066 0.1-0.2																X	X	X		X	X					
FC066 0.5-0.7																X	X						X			
FC066 1.5-1.7									X											Y	Y					
FC066 2.5-2.7																X	X	X	X	X	X	+			X	
FC066 3.1-3.3																										
FC066 4.5-4.7				+ 6 kg bag												X	X	X	X	X	X	+			X	
FC067 0.1-0.2				+ 6 kg bag																						

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Nathan DATE: 10/1/14	CONSIGNMENT NOTE NO.	NAME: Ethan DATE: 130114	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	OF: EPImgt 1700	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO Forms013 - Chain of Custody - eurofins mgt

JB1 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1T - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos
JB2 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
B10 - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2/JBL - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)
JB3/JBL - TRH/BTEX/PAH/OCP/OPP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)/Asbestos
JB4 - TRH/BTEX/VOC
JBL - TCLP(PAH & 6 Metals)

eurofins | mgt
Unit F3-F6 Building F, Parkview Building
16 Mars Road, Lane Cove West
NSW 2066

CHAIN OF CUSTODY

#405524

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square Block 17
SEND REPORT TO: N Cussen SEND INVOICE TO: G Ng
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: Chris B
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: NCussen@jbsg.com.au
QC LEVEL: NEPM (2013)

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	JB1	JB1T	JB1A	JB2	JB2A	B10	JB2/JBL	JB3/JBL	JB4	JBL	8 Metals	TRH	BTEX	OCPs	EC	PH	NOTES:
FC067 0.5-0.6	Soil	9/1/19		Ice												Y	Y	Y		Y	Y	
FC067 0.9-1.1																X	X	X				
FC067 1.9-2.1																						
FC067 3.1-3.3									X											X	X	
FC067 4.5-4.7																						
FC068 0.1-0.2																						
FC068 0.6-0.8																X	X	X				
FC068 1.1-1.3																						
FC068 3.9-4.0																X	X	X				
FC068 4.8-5.0								X														

RELINQUISHED BY:
NAME: Nathan DATE: 10/1/19
OF: JBS&G
NAME: DATE:
OF:

METHOD OF SHIPMENT:
CONSIGNMENT NOTE NO.
TRANSPORT CO.
CONSIGNMENT NOTE NO.
TRANSPORT CO

RECEIVED BY:
NAME: Ellen WG DATE: 130114
OF: EFI mgt 1700
NAME: DATE:
OF:

FOR RECEIVING LAB USE ONLY:
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - eurofins mgt

JB1 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1T - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos
JB2 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
B10 - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2/JBL - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)
JB3/JBL - TRH/BTEX/PAH/OCP/OPP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)/Asbestos
JB4 - TRH/BTEX/VOC
JBL - TCLP(PAH & 6 Metals)

Envirolab Services Pty Ltd
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12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
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SAMPLE RECEIPT ADVICE

Client:

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney NSW 2000

ph: 02 8245 0300
Fax: 02 8245 0399

Attention: Joanne Rosner, Nathan Cussen

Sample log in details:

Your reference:	**43182, Green Square Block 17**
Envirolab Reference:	**103472**
Date received:	14/01/14
Date results expected to be reported:	**21/01/14**

Samples received in appropriate condition for analysis:	YES
No. of samples provided	30 soils
Turnaround time requested:	Standard
Temperature on receipt (°C)	NA
Cooling Method:	None
Sampling Date Provided:	YES

Comments:

Samples will be held for 1 month for water samples and 2 months for soil samples from date of receipt of samples.

Contact details:

Please direct any queries to Aileen Hie or Jacinta Hurst
ph: 02 9910 6200 fax: 02 9910 6201
email: ahie@envirolabservices.com.au or jhurst@envirolabservices.com.au

Envirolab Services Pty Ltd
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enquiries@envirolabservices.com.au
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CERTIFICATE OF ANALYSIS 103472

Client:
JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention: Joanne Rosner, Nathan Cussen

Sample log in details:

Your Reference:	**43182, Green Square Block 17**		
No. of samples:	30 soils		
Date samples received / completed instructions received	14/01/14	/	14/01/14

Analysis Details:
Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by: / Issue Date:	21/01/14	/	21/01/14
Date of Preliminary Report:	Not Issued		

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Accredited for compliance with ISO/IEC 17025. **Tests not covered by NATA are denoted with *.**

Results Approved By:

Jacinta Hurst
Laboratory Manager

Asbestos ID - soils WA						
Our Reference:	UNITS	103472-1	103472-2	103472-4	103472-6	103472-7
Your Reference	----------	FC064	FC064	FC064	FC064	FC065
Depth	----------	0.1-0.2	0.5-0.7	3.1-3.3	4.7-4.9	0.1-0.2
Date Sampled		09/01/2014	09/01/2014	09/01/2014	09/01/2014	09/01/2014
Type of sample		soil	soil	soil	soil	soil
Date analysed	-	20/01/2014	20/01/2014	20/01/2014	20/01/2014	20/01/2014
Sample mass tested	g	724.41g	471.80g	441.05g	445.72g	801.48g
Sample Description	-	Dark brown coarse-grained & rocks	Grey fine-grained soil & rocks	Brown coarse-grained & rocks	Brown coarse-grained soil & rocks	Dark grey fine-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected

Asbestos ID - soils WA						
Our Reference:	UNITS	103472-8	103472-10	103472-11	103472-14	103472-15
Your Reference	----------	FC065	FC065	FC065	FC066	FC066
Depth	----------	0.5-0.7	2.3-2.5	3.0-3.2	0.5-0.7	1.5-1.7
Date Sampled		09/01/2014	09/01/2014	09/01/2014	09/01/2014	09/01/2014
Type of sample		soil	soil	soil	soil	soil
Date analysed	-	20/01/2014	20/01/2014	20/01/2014	20/01/2014	20/01/2014
Sample mass tested	g	760.28g	601.34g	586.73g	685.66g	610.94g
Sample Description	-	Dark grey fine-grained soil & rocks	Grey coarse-grained & rocks	Grey fine-grained soil & rocks	Dark grey coarse-grained soil & rocks	Grey fine-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected

Asbestos ID - soils WA						
Our Reference:	UNITS	103472-16	103472-17	103472-20	103472-21	103472-23
Your Reference	----------	FC066	FC066	FC067	FC067	FC067
Depth	----------	2.5-2.7	3.1-3.3	0.5-0.6	0.9-1.1	3.1-3.3
Date Sampled		09/01/2014	09/01/2014	09/01/2014	09/01/2014	09/01/2014
Type of sample		soil	soil	soil	soil	soil
Date analysed	-	20/01/2014	20/01/2014	20/01/2014	20/01/2014	20/01/2014
Sample mass tested	g	618.87g	540.00g	812.77g	476.36g	720.07g
Sample Description	-	Brown coarse-grained soil & rocks	Yellow coarse-grained soil	Brown coarse-grained soil & rocks	Grey fine-grained soil & rocks	Brown coarse-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected

Asbestos ID - soils WA				
Our Reference:	UNITS	103472-25	103472-27	103472-29
Your Reference	----------	FC068	FC068	FC068
Depth	----------	0.1-0.2	1.1-1.3	3.8-4.0
Date Sampled		09/01/2014	09/01/2014	09/01/2014
Type of sample		soil	soil	soil
Date analysed	-	20/01/2014	20/01/2014	20/01/2014
Sample mass tested	g	588.97g	646.39g	754.54g
Sample Description	-	Dark brown coarse-grained & rocks	Grey fine-grained soil & rocks	Brown coarse-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected

Method ID	Methodology Summary
ASB-003	Asbestos ID - Minimum 500mL soil sample was analysed as recommended by "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.1g/kg as per AS4964-2004.

Report Comments:

This report is consistent with the analytical procedures and reporting recommendations in the Western Australian Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009.

Note: All samples analysed as received. However, sample 103472-4 are below the minimum 500mL sample volume as per Western Australia's DOH guidelines.

Sample 103472-1; Loose fibre bundles of chrysotile and amosite asbestos identified within the sample (total weight 0.0008g). This is 100% asbestos fibres by weight, which in 724.41g of soil is 0.00g/kg (i.e. < reporting limit for the method of 0.1g/kg).

Sample 103472-6; Loose fibre bundles of chrysotile asbestos identified within the sample (total weight 0.0051g). This is 100% asbestos fibres by weight, which in 445.72g of soil is 0.01g/kg (i.e. < reporting limit for the method of 0.1g/kg).

Sample 103472-7; Chrysotile asbestos identified in matted material (total weight 0.0015g). It is estimated that the matted material contains up to 20% asbestos fibres by weight. This calculates to 0.0003g of asbestos fibres, which in 801.48g of soil is 0.00g/kg (i.e. < reporting limit for the method of 0.1g/kg).

Sample 103472-8; Loose fibre bundles of chrysotile asbestos identified within the sample (total weight 0.0001g). This is 100% asbestos fibres by weight, which in 760.28g of soil is 0.00g/kg (i.e. < reporting limit for the method of 0.1g/kg).

Sample 103472-14; Loose fibre bundles of chrysotile asbestos identified within the sample (total weight 0.0020g). This is 100% asbestos fibres by weight, which in 685.66g of soil is 0.00g/kg (i.e. < reporting limit for the method of 0.1g/kg).

Sample 103472-15; Loose fibre bundles of chrysotile asbestos identified within the sample (total weight 0.0055g). This is 100% asbestos fibres by weight, which in 610.94g of soil is 0.01g/kg (i.e. < reporting limit for the method of 0.1g/kg).

Sample 103472-16; Loose fibre bundles of chrysotile, amosite and crocidolite asbestos identified within the sample (total weight 0.0059g). This is 100% asbestos fibres by weight, which in 618.87g of soil is 0.01g/kg (i.e. < reporting limit for the method of 0.1g/kg).

Sample 103472-20; Loose fibre bundles of chrysotile asbestos identified within the sample (total weight 0.0031g). This is 100% asbestos fibres by weight, which in 812.77g of soil is 0.00g/kg (i.e. < reporting limit for the method of 0.1g/kg).

Sample 103472-25; Loose fibre bundles of chrysotile asbestos identified within the sample (total weight 0.0030g). This is 100% asbestos fibres by weight, which in 588.97g of soil is 0.01g/kg (i.e. < reporting limit for the method of 0.1g/kg).

Sample 103472-27; Loose fibre bundles of chrysotile asbestos identified within the sample (total weight 0.0004g). This is 100% asbestos fibres by weight, which in 646.39g of soil is 0.00g/kg (i.e. < reporting limit for the method of 0.1g/kg).

Asbestos ID was analysed by Approved Identifier: Paul Ching
Asbestos ID was authorised by Approved Signatory: Paul Ching

INS: Insufficient sample for this test
NA: Test not required
<: Less than

PQL: Practical Quantitation Limit
RPD: Relative Percent Difference
>: Greater than

NT: Not tested
NA: Test not required
LCS: Laboratory Control Sample

Quality Control Definitions

Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

Duplicate: This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

Matrix Spike : A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

LCS (Laboratory Control Sample) : This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Surrogate Spike: Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.
Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.
Spikes for Physical and Aggregate Tests are not applicable.
For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.
Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for SVOC and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

12 Ashley Street
Chatswood
NSW 2067

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square Block 17
SEND REPORT TO: N Cossen SEND INVOICE TO: G NIC
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: Chris D
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: ncossen@jbsg.com.a

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	COMBO SUITES: SOIL - 4	SOIL - 4L	SOIL - 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER - 1m	WATER - 2L	WATER - 3L	Asbestos (DA)	NOTES:
1	FC064 0.1 – 0.2	Soil	9/1/14		Bag 500 ml												X	
2	FC064 0.5 – 0.7																X	
3	FC064 1.9 – 2.1																X	
4	FC064 3.1 – 3.3																	
5	FC064 3.8 – 4.0																	
6	FC064 4.7 – 4.9																X	
7	FC065 0.1 – 0.2																X	
8	FC065 0.5 – 0.7																X	
9	FC065 1.0 – 1.2																X	
10	FC065 2.3 – 2.5																	
11	FC065 3.0 – 3.2																X	
12	FC065 4.5 – 4.7																X	
13	FC066 0.1 – 0.2																	
14	FC066 0.5 – 0.7																	
15	FC066 1.5 – 1.7																X	
16	FC066 2.5 – 2.7																X	
17	FC066 3.1 – 3.3																X	
18	FC066 4.5 – 4.7																X	

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

ENVIROLAB GROUP

Job No: 103472
Date Received: 14.1.14
Time Received: 9:00
Received by: D.F
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

RELINQUISHED BY:
NAME: Nathen DATE: 10/1/14
OF: JBS&G
NAME: DATE:
OF:

METHOD OF SHIPMENT:
CONSIGNMENT NOTE NO.
TRANSPORT CO.
CONSIGNMENT NOTE NO.
TRANSPORT CO

RECEIVED BY:
NAME: Daniel Ford
DATE: 14.1.14
OF: Env
NAME: DATE:
OF:

FOR RECEIVING LAB USE ONLY:
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Envirolab

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

12 Ashley Street
Chatswood
NSW 2067

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square Block 17
SEND REPORT TO: N Cussen SEND INVOICE TO: C Ng
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: Chris B
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: ncussen@jbsg.com
QC LEVEL: NEPM (2013)

103472

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	COMBO SUITES: SOIL - 4	SOIL – 4L	SOIL – 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER – 1m	WATER – 2L	WATER – 3L	Asbestos (Soil)	NOTES:
19	FC067 0.1 – 0.2	Soil	4/1/14		Bag 500 ml											·	
20	FC067 0.5 – 0.6															X	
21	FC067 0.9 – 1.1															X	
22	FC067 1.9 – 2.1															X	
23	FC067 3.1 – 3.3																
24	FC067 4.5 – 4.7															X	
25	FC068 0.1 – 0.2																
26	FC068 0.6 – 0.8															X	
27	FC068 1.1 – 1.3																
28	FC068 1.8 – 2.0															X	
29	FC068 3.8 – 4.0																
30	FC068 4.8 – 5.0															X	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Nathan DATE: 10/1/14	CONSIGNMENT NOTE NO.	NAME: Daniel Ford	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 14.1.14	
NAME: DATE:	CONSIGNMENT NOTE NO.	OF: EC	COOLER TEMP ..... deg C
OF:	TRANSPORT CO	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
		OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Envirolab

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

PICKFORD & RHYDER CONSULTING PTY LTD
ABN 17 105 546 076
Occupational Hygiene Measurements and Solutions.

PO Box 1422 Lane Cove 1595
Rear - 244 Burns Bay Road
Lane Cove NSW Australia
Phone: (02) 9418 9151
Fax: (02) 9418 9150

16 January 2014

N. Cussen
JBS&G (NSW & WA) Pty Ltd
Level 1
50 Margaret Street
SYDNEY NSW 2000

Email: ncussen@jbsg.com.au,

CERTIFICATE OF ANALYSIS – ASBESTOS IDENTIFICATION

YOUR REFERENCE/JOB No: 43182
TYPE OF SAMPLES: Bulk sample - as received from Envirolab Services
SITE LOCATION: Green Square, Block 16 A/B
DATE SAMPLED: 10 January 2014 **DATE RECEIVED:** 15 January 2014
OUR REFERENCE: 77791-ID

TEST METHOD: Soil samples examined by Stereomicroscopy and Polarized Light Microscopy (with Dispersion Staining) in accordance with AS 4964-2004: - 'Method for the qualitative identification of asbestos in bulk samples' as outlined in Laboratory Method ID/1. The Reporting Limit for the results in this Certificate is numerically equal to the lowest detection limit of 0.1 g/kg. Trace asbestos analysis has been conducted on each sample, which is generally designed to detect 'respirable' asbestos fibres (i.e. less than 3 micrometres in width) distributed throughout the sample.

Sample No	*Lab No*	*Sample Information*	*Analysis Result*	*Description*
QC06-A	77791	Soil sample as received	No asbestos detected	The sample was a grey/brown, clumpy soil with stones and plant matter, of total approximate weight 741 g, in which organic fibres were detected in the +2 mm and -2mm fraction. No asbestos fibres were detected in the +2 mm fraction. No asbestos fibres were detected in a representative sub-sample of the –2 mm fraction. No asbestos fibres were found at the Reporting Limit of 0.1g/kg.

All sampling and site work has been undertaken by the client - the analytical procedures and results reported on this Certificate have been conducted by Pickford & Rhyder Consulting.

Sampling is not covered by the scope of accreditation.

Analysed and reported by:

Gary Conaty,
Approved Identifier and Signatory.

NATA
ACCREDITED FOR TECHNICAL COMPETENCE

Accredited for compliance with ISO/IEC 17025. This document shall not be reproduced except in full.

Accreditation number 2515

77791

Envirolab Services Pty Ltd
12 Ashley Street
Chatswood
NSW 2067

For P&R

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 43182	LABORATORY BATCH NO.:
PROJECT NAME: Green Square Block 16 A/B	SAMPLERS: Chris B
SEND REPORT TO: N Cussen SEND INVOICE TO:	PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: ncussen@jbsg.com.a
DATE NEEDED BY: STD TAT	QC LEVEL: NEPM (2013)
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:	

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	COMBO SUITES: SOIL - 4	SOIL – 4L	SOIL – 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER – 1m	WATER – 2L	WATER – 3L	Asbestos	NOTES:
QC06-A	Soil	10/1/14		Bag												1	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Nathan DATE: 10/1/14	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE:	
NAME: DATE: 15/1/14	CONSIGNMENT NOTE NO.	OF:	COOLER TEMP ..... deg C
OF:	TRANSPORT CO	NAME: DATE:	COOLER SEAL – Yes..... No..... Intact ..... Broken .....
		OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Envirolab

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

Recd by JM
15/1/14
9:30

eurofins | mgt

ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

Melbourne
3-5 Kingston Town Close
Oakleigh Vic 3166
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F6, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Sample Receipt Advice

Company name: **JBS & G (NSW & WA) Pty Ltd**

Contact name: Nathan Cussen
Client job number: ADDITIONAL: GREEN SQUARE BLOCK 16 AB 43182
COC number: Not provided
Turn around time: 5 Day
Date/Time received: Jan 24, 2014 12:00 PM
Eurofins | mgt reference: **406600**

Sample information

☑ A detailed list of analytes logged into our LIMS, is included in the attached summary table.

☑ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt Sample Receipt : 11 degrees Celsius.

☑ All samples have been received as described on the above COC.

☑ COC has been completed correctly.

☑ Attempt to chill was evident.

☑ Appropriately preserved sample containers have been used.

☑ All samples were received in good condition.

☑ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.

☑ Organic samples had Teflon liners.

☒ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Notes

Additional from 405817

Contact notes

If you have any questions with respect to these samples please contact:

Jean Heng on Phone : (+61) (2) 9900 8400 or by e.mail: JeanHeng@eurofins.com.au

Results will be delivered electronically via e.mail to Nathan Cussen - ncussen@jbsg.com.au.

Eurofins | mgt Sample Receipt

eurofins | mgt

ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

Melbourne
3-5 Kingston Town Close
Oakleigh VIC 3166
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F6, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: ADDITIONAL: GREEN SQUARE BLOCK 16 AB 43182

Order No.:
Report #: 406600
Phone: 02 8245 0300
Fax:

Received: Jan 24, 2014 12:00 PM
Due: Feb 3, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Lead	Polycyclic Aromatic Hydrocarbons	Toxicity Characteristic Leaching Procedure (TCLP)	Metals M8
Laboratory where analysis is conducted									
Melbourne Laboratory - NATA Site # 1254 & 14271									
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794									
External Laboratory									
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**					
FC018 8.5-8.7	Jan 15, 2014		TCLP	S14-Ja11860	X	X	X	X	
FC020 7.0-7.1	Jan 15, 2014		TCLP	S14-Ja11861	X		X	X	
FC017 6.0-6.1	Jan 15, 2014		TCLP	S14-Ja11862	X			X	X
FC021 6.0-6.1	Jan 15, 2014		TCLP	S14-Ja11864	X		X	X	
FC021 8.5-8.7	Jan 15, 2014		TCLP	S14-Ja11865	X			X	X

eurofins | mgt

Certificate of Analysis

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention: **Nathan Cussen**

Report **406600-L**
Client Reference ADDITIONAL: GREEN SQUARE BLOCK 16 AB 43182
Received Date Jan 24, 2014

Client Sample ID **Sample Matrix** **Eurofins | mgt Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**FC018 8.5-8.7** **TCLP** **S14-Ja11860** **Jan 15, 2014**	**FC020 7.0-7.1** **TCLP** **S14-Ja11861** **Jan 15, 2014**	**FC017 6.0-6.1** **TCLP** **S14-Ja11862** **Jan 15, 2014**	**FC021 6.0-6.1** **TCLP** **S14-Ja11864** **Jan 15, 2014**
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.001	mg/L	0.001	0.002	-	< 0.001
Acenaphthylene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Anthracene	0.001	mg/L	< 0.001	0.001	-	< 0.001
Benz(a)anthracene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Benzo(a)pyrene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Benzo(g.h.i)perylene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Benzo(k)fluoranthene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Chrysene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Dibenz(a.h)anthracene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Fluoranthene	0.001	mg/L	0.003	0.002	-	< 0.001
Fluorene	0.001	mg/L	0.001	0.003	-	< 0.001
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Naphthalene	0.001	mg/L	< 0.001	0.009	-	< 0.001
Phenanthrene	0.001	mg/L	0.005	0.005	-	0.001
Pyrene	0.001	mg/L	0.003	0.002	-	< 0.001
Total PAH	0.002	mg/L	0.013	0.024	-	0.001
2-Fluorobiphenyl (surr.)	1	%	98	74	-	89
p-Terphenyl-d14 (surr.)	1	%	122	91	-	116
Heavy Metals						
Arsenic	0.01	mg/L	-	-	< 0.01	-
Cadmium	0.005	mg/L	-	-	0.006	-
Chromium	0.05	mg/L	-	-	< 0.05	-
Copper	0.05	mg/L	-	-	< 0.05	-
Lead	0.01	mg/L	3.4	-	1.3	-
Mercury	0.001	mg/L	-	-	< 0.001	-
Nickel	0.05	mg/L	-	-	< 0.05	-
Zinc	0.05	mg/L	-	-	3.7	-
% Moisture	0.1	%	17	20	17	11
Toxicity Characteristic Leaching Procedure (TCLP)						
Leachate Fluid[C01]		comment	1.0	1.0	1.0	1.0
pH (TCLP - HCl addition)	0.1	units	2.0	1.7	1.8	1.8
pH (TCLP - initial)	0.1	units	7.3	8.4	8.3	8.3
pH (TCLP - off)	0.1	units	5.1	5.1	5.1	5.1

Client Sample ID			FC021 8.5-8.7
Sample Matrix			**TCLP**
Eurofins | mgt Sample No.			**S14-Ja11865**
Date Sampled			**Jan 15, 2014**
Test/Reference	LOR	Unit	
Heavy Metals			
Arsenic	0.01	mg/L	< 0.01
Cadmium	0.005	mg/L	0.007
Chromium	0.05	mg/L	< 0.05
Copper	0.05	mg/L	< 0.05
Lead	0.01	mg/L	0.95
Mercury	0.001	mg/L	< 0.001
Nickel	0.05	mg/L	< 0.05
Zinc	0.05	mg/L	5.5
% Moisture	0.1	%	20
Toxicity Characteristic Leaching Procedure (TCLP)			
Leachate Fluid[C01]		comment	1.0
pH (TCLP - HCl addition)	0.1	units	2.0
pH (TCLP - initial)	0.1	units	8.6
pH (TCLP - off)	0.1	units	5.7

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Polycyclic Aromatic Hydrocarbons	Sydney	Jan 30, 2014	7 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Metals M8	Sydney	Jan 28, 2014	28 Day
- Method: E022 Acid Extractable metals in Soils & E026 Mercury			
Heavy Metals	Sydney	Jan 28, 2014	180 Day
- Method: E022 Acid Extractable metals in Soils			
% Moisture	Sydney	Jan 28, 2014	0 Day
- Method: E005 Moisture Content			
Toxicity Characteristic Leaching Procedure (TCLP)	Sydney	Jan 28, 2014	0 Day
- Method: E019 TCLP Preparation			

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ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

Melbourne
3-5 Kingston Town Close
Oakleigh VIC 3166
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F6, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: ADDITIONAL: GREEN SQUARE BLOCK 16 AB 43182

Order No.:
Report #: 406600
Phone: 02 8245 0300
Fax:

Received: Jan 24, 2014 12:00 PM
Due: Feb 3, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Lead	Polycyclic Aromatic Hydrocarbons	Toxicity Characteristic Leaching Procedure (TCLP)	Metals M8
Laboratory where analysis is conducted									
Melbourne Laboratory - NATA Site # 1254 & 14271									
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794									
External Laboratory									
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**					
FC018 8.5-8.7	Jan 15, 2014		TCLP	S14-Ja11860	X	X	X	X	
FC020 7.0-7.1	Jan 15, 2014		TCLP	S14-Ja11861	X		X	X	
FC017 6.0-6.1	Jan 15, 2014		TCLP	S14-Ja11862	X			X	X
FC021 6.0-6.1	Jan 15, 2014		TCLP	S14-Ja11864	X		X	X	
FC021 8.5-8.7	Jan 15, 2014		TCLP	S14-Ja11865	X			X	X

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

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Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/L	< 0.001			0.001	Pass	
Acenaphthylene	mg/L	< 0.001			0.001	Pass	
Anthracene	mg/L	< 0.001			0.001	Pass	
Benz(a)anthracene	mg/L	< 0.001			0.001	Pass	
Benzo(a)pyrene	mg/L	< 0.001			0.001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.001			0.001	Pass	
Benzo(g.h.i)perylene	mg/L	< 0.001			0.001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.001			0.001	Pass	
Chrysene	mg/L	< 0.001			0.001	Pass	
Dibenz(a.h)anthracene	mg/L	< 0.001			0.001	Pass	
Fluoranthene	mg/L	< 0.001			0.001	Pass	
Fluorene	mg/L	< 0.001			0.001	Pass	
Indeno(1.2.3-cd)pyrene	mg/L	< 0.001			0.001	Pass	
Naphthalene	mg/L	< 0.001			0.001	Pass	
Phenanthrene	mg/L	< 0.001			0.001	Pass	
Pyrene	mg/L	< 0.001			0.001	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.01			0.01	Pass	
Cadmium	mg/L	< 0.005			0.005	Pass	
Chromium	mg/L	< 0.05			0.05	Pass	
Copper	mg/L	< 0.05			0.05	Pass	
Lead	mg/L	< 0.01			0.01	Pass	
Mercury	mg/L	< 0.001			0.001	Pass	
Nickel	mg/L	< 0.05			0.05	Pass	
Zinc	mg/L	< 0.05			0.05	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Heavy Metals				Result 1					
Lead	S14-Ja10270	NCP	%	87			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S14-Ja10270	NCP	%	92			70-130	Pass	
Cadmium	S14-Ja10270	NCP	%	98			70-130	Pass	
Chromium	S14-Ja10270	NCP	%	88			70-130	Pass	
Copper	S14-Ja10270	NCP	%	85			70-130	Pass	
Mercury	S14-Ja10270	NCP	%	106			70-130	Pass	
Nickel	S14-Ja10270	NCP	%	87			70-130	Pass	
Zinc	S14-Ja10270	NCP	%	89			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1	Result 2	RPD	Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Lead	S14-Ja10269	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S14-Ja10269	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Cadmium	S14-Ja10269	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Chromium	S14-Ja10269	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Copper	S14-Ja10269	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Mercury	S14-Ja10269	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Nickel	S14-Ja10269	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Zinc	S14-Ja10269	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
C01	Leachate Fluid Key: 1 - pH 5.0, 2 - pH 2.9, 3 - pH 9.2, 4 - Reagent (DI) water, 5 - Client sample, 6 - other
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs

Authorised By

Jean Heng	Client Services
James Norford	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)

Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

Eurofins | mgt shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins | mgt be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

From: Jean Heng
Sent: Friday, 24 January 2014 12:03 PM
To: Sample Receipt 1 Syd; EnviroSampleNSW
Subject: RE: Lab Batch 405817 - Green Square Block 16AB

Sorry, it's M8 !

Jean Heng
Client Manager | NSW

Eurofins | mgt
Unit F3-F6, Parkview Building
16 Mars Road,
Lane Cove West, NSW 2066, Australia
Phone: +61 2 9900 8400
Direct: +61 2 9900 8460
Mobile: +61 403 637 214
Fax: +61 2 9420 2977

JBS&G #406600

From: Sample Receipt 1 Syd
Sent: Friday, 24 January 2014 10:31 AM
To: Jean Heng; EnviroSampleNSW
Subject: RE: Lab Batch 405817 - Green Square Block 16AB

Hey Jean,
Sample FC021 8.5-8.7 is missed for analysis can please confirm?
Thanks

Ellen Wandala Gamage
(Mon-Fri PM)
Sample Receipt | NSW

From: Nathan Cussen [mailto:NCussen@jbsg.com.au]
Sent: Friday, 24 January 2014 9:23 AM
To: Jean Heng
Subject: Lab Batch 405817 - Green Square Block 16AB
Morning,

Could I please schedule the following TCLP analysis:

- FC018 8.5-8.7 PAH
- FC020 7.0-7.1 PAH
- FC017 6.0-6.1 METALS
- FC018 8.5-8.7 LEAD
- FC021 6.0-6.1 PAH
- FC021 8.5-8.7

Cheers,
Nathan

Nathan Cussen | Senior Environmental Consultant| JBS&G
Sydney | Melbourne | Adelaide | Perth | Brisbane

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ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

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3-5 Kingston Town Close
Oakleigh Vic 3166
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F6, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Sample Receipt Advice

Company name: **JBS & G (NSW & WA) Pty Ltd**

Contact name: Nathan Cussen
Client job number: ADDITIONAL: GREEN SQUARE BLOCK 16 A/B 43182
COC number: Not provided
Turn around time: 5 Day
Date/Time received: Jan 23, 2014 9:58 AM
Eurofins | mgt reference: **406446**

Sample information

☑ A detailed list of analytes logged into our LIMS, is included in the attached summary table.

☑ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt Sample Receipt : 11 degrees Celsius.

☑ All samples have been received as described on the above COC.

☑ COC has been completed correctly.

☑ Attempt to chill was evident.

☑ Appropriately preserved sample containers have been used.

☑ All samples were received in good condition.

☑ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.

☑ Organic samples had Teflon liners.

☑ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Notes

Additional from report 405738 | Coal Tar analysis conducted at Envirolab.

Contact notes

If you have any questions with respect to these samples please contact:

Jean Heng on Phone : (+61) (2) 9900 8400 or by e.mail: JeanHeng@eurofins.com.au

Results will be delivered electronically via e.mail to Nathan Cussen - ncussen@jbsg.com.au.

Eurofins | mgt Sample Receipt

eurofins | mgt

ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

Melbourne
3-5 Kingston Town Close
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NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Order No.:
Report #: 406446
Phone: 02 8245 0300
Fax:

Received: Jan 23, 2014 9:58 AM
Due: Jan 31, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Client Job No.: ADDITIONAL: GREEN SQUARE BLOCK 16 A/B 43182

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Asphalt*	Polycyclic Aromatic Hydrocarbons	Toxicity Characteristic Leaching Procedure (TCLP)	Metals M8
Laboratory where analysis is conducted									
Melbourne Laboratory - NATA Site # 1254 & 14271									
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794									
External Laboratory									
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**					
FC018 2.8-3.0	Jan 13, 2014		TCLP	S14-Ja10932	X		X	X	X
FC018 4.1-4.3	Jan 13, 2014		TCLP	S14-Ja10933	X		X	X	X
FC021 0.1-0.2	Jan 13, 2014		TCLP	S14-Ja10934	X		X	X	
FC021 0.8-1.0	Jan 13, 2014		TCLP	S14-Ja10935	X		X	X	
FC021 2.9-3.1	Jan 13, 2014		TCLP	S14-Ja10936	X		X	X	X
FC021 4.3-4.5	Jan 13, 2014		TCLP	S14-Ja10937	X			X	X
FC027 1.8-2.0	Jan 13, 2014		TCLP	S14-Ja10938	X		X	X	X
FC027 4.3-4.5	Jan 13, 2014		TCLP	S14-Ja10939	X	X	X	X	X

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

CERTIFICATE OF ANALYSIS 104019

Client:
Eurofins | mgt
3 Kingston Town Cl
Oakleigh
VIC 3166

Attention: Sefton McGraw

Sample log in details:

Your Reference:	**406446**
No. of samples:	1 soil
Date samples received:	24/01/14
Date completed instructions received:	24/01/14

Analysis Details:
Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by:	31/01/14
Date of Preliminary Report:	not issued
Issue Date:	30/01/14

NATA accreditation number 2901. This document shall not be reproduced except in full.
Accredited for compliance with ISO/IEC 17025.
Tests not covered by NATA are denoted with *.

Results Approved By:

Nick Sarlamis
Inorganics Supervisor

Miscellaneous Inorg - soil		
Our Reference:	UNITS	104019-1
Your Reference	----------	FC027
Depth	----------	4.3-4.5
Type of sample		soil
Date prepared	-	28/01/2014
Date analysed	-	28/01/2014
Presence of Coal Tar*	-	Absent

Method ID	Methodology Summary
RTA T542	Determination of Phenol in core samples as per RTA test method T542. This procedure gives and indication of whether a sample of asphalt has been made with coal tar.

QUALITY CONTROL Miscellaneous Inorg - soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base II Duplicate II %RPD	Spike Sm#	Spike % Recovery
Date prepared	-			28/01/2014	[NT]	[NT]	LCS-1	28/01/2014
Date analysed	-			28/01/2014	[NT]	[NT]	LCS-1	28/01/2014
Presence of Coal Tar*	-		RTA T542	Absent	[NT]	[NT]	LCS-1	Present

Report Comments:

Asbestos was analysed by Approved Identifier: Not applicable for this job
Asbestos was authorised by Approved Signatory: Not applicable for this job

INS: Insufficient sample for this test
NA: Test not required
<: Less than
PQL: Practical Quantitation Limit
RPD: Relative Percent Difference
>: Greater than
NT: Not tested
NA: Test not required
LCS: Laboratory Control Sample

Quality Control Definitions

Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

Duplicate: This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

Matrix Spike : A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

LCS (Laboratory Control Sample) : This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Surrogate Spike: Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.
Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.
Spikes for Physical and Aggregate Tests are not applicable.
For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.
Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for SVOC and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

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Certificate of Analysis

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Nathan Cussen**

Report **406446-L**
Client Reference ADDITIONAL: GREEN SQUARE BLOCK 16 A/B 43182
Received Date Jan 23, 2014

Client Sample ID **Sample Matrix** **Eurofins | mgt Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**FC018 2.8-3.0** **TCLP** **S14-Ja10932** **Jan 13, 2014**	**FC018 4.1-4.3** **TCLP** **S14-Ja10933** **Jan 13, 2014**	**FC021 0.1-0.2** **TCLP** **S14-Ja10934** **Jan 13, 2014**	**FC021 0.8-1.0** **TCLP** **S14-Ja10935** **Jan 13, 2014**
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.001	mg/L	< 0.001	< 0.001	0.004	< 0.001
Acenaphthylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benz(a)anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(a)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(g.h.i)perylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(k)fluoranthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chrysene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dibenz(a.h)anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Fluoranthene	0.001	mg/L	< 0.001	< 0.001	0.001	0.003
Fluorene	0.001	mg/L	< 0.001	< 0.001	0.003	< 0.001
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Naphthalene	0.001	mg/L	< 0.001	< 0.001	0.002	0.004
Phenanthrene	0.001	mg/L	0.001	< 0.001	0.004	0.005
Pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	0.002
Total PAH	0.002	mg/L	0.001	< 0.001	0.014	0.014
2-Fluorobiphenyl (surr.)	1	%	95	97	100	91
p-Terphenyl-d14 (surr.)	1	%	124	124	127	121
Heavy Metals						
Arsenic	0.01	mg/L	< 0.01	< 0.01	-	-
Cadmium	0.005	mg/L	0.009	< 0.005	-	-
Chromium	0.05	mg/L	< 0.05	< 0.05	-	-
Copper	0.05	mg/L	0.26	< 0.05	-	-
Lead	0.01	mg/L	0.45	0.03	-	-
Mercury	0.001	mg/L	< 0.001	< 0.001	-	-
Nickel	0.05	mg/L	< 0.05	0.22	-	-
Zinc	0.05	mg/L	2.9	0.51	-	-
% Moisture	0.1	%	7.7	18	4.3	4.3
Toxicity Characteristic Leaching Procedure (TCLP)						
Leachate Fluid[C01]		comment	1.0	1.0	1.0	1.0
pH (TCLP - HCl addition)	0.1	units	1.8	1.8	1.8	1.8
pH (TCLP - initial)	0.1	units	8.4	8.5	8.4	8.5
pH (TCLP - off)	0.1	units	5.1	5.4	5.0	5.3

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC021 2.9-3.1 TCLP S14-Ja10936 Jan 13, 2014	FC021 4.3-4.5 TCLP S14-Ja10937 Jan 13, 2014	FC027 1.8-2.0 TCLP S14-Ja10938 Jan 13, 2014	FC027 4.3-4.5 TCLP S14-Ja10939 Jan 13, 2014
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.001	mg/L	< 0.001	-	< 0.001	0.002
Acenaphthylene	0.001	mg/L	< 0.001	-	< 0.001	0.002
Anthracene	0.001	mg/L	< 0.001	-	< 0.001	0.001
Benz(a)anthracene	0.001	mg/L	< 0.001	-	< 0.001	< 0.001
Benzo(a)pyrene	0.001	mg/L	< 0.001	-	< 0.001	< 0.001
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	< 0.001	-	< 0.001	< 0.001
Benzo(g.h.i)perylene	0.001	mg/L	< 0.001	-	< 0.001	< 0.001
Benzo(k)fluoranthene	0.001	mg/L	< 0.001	-	< 0.001	< 0.001
Chrysene	0.001	mg/L	< 0.001	-	< 0.001	< 0.001
Dibenz(a.h)anthracene	0.001	mg/L	< 0.001	-	< 0.001	< 0.001
Fluoranthene	0.001	mg/L	< 0.001	-	< 0.001	0.003
Fluorene	0.001	mg/L	< 0.001	-	< 0.001	0.002
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001	-	< 0.001	< 0.001
Naphthalene	0.001	mg/L	< 0.001	-	< 0.001	0.003
Phenanthrene	0.001	mg/L	0.001	-	0.003	0.007
Pyrene	0.001	mg/L	< 0.001	-	< 0.001	0.003
Total PAH	0.002	mg/L	0.001	-	0.003	0.023
2-Fluorobiphenyl (surr.)	1	%	92	-	85	99
p-Terphenyl-d14 (surr.)	1	%	125	-	110	130
Heavy Metals						
Arsenic	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Cadmium	0.005	mg/L	0.008	0.008	< 0.005	0.008
Chromium	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
Copper	0.05	mg/L	0.13	0.13	< 0.05	0.10
Lead	0.01	mg/L	0.42	0.67	0.48	1.0
Mercury	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Nickel	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
Zinc	0.05	mg/L	2.7	4.3	1.1	1.8
% Moisture	0.1	%	9.2	7.2	8.9	6.8
Toxicity Characteristic Leaching Procedure (TCLP)						
Leachate Fluid[C01]		comment	1.0	1.0	1.0	1.0
pH (TCLP - HCl addition)	0.1	units	1.8	1.9	1.8	1.8
pH (TCLP - initial)	0.1	units	8.6	8.5	9.1	9.1
pH (TCLP - off)	0.1	units	5.1	5.0	5.8	5.9
Foreign Material - Type I						
Asphalt*			-	-	-	see attached

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Polycyclic Aromatic Hydrocarbons	Sydney	Jan 29, 2014	7 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Metals M8	Sydney	Jan 28, 2014	28 Day
- Method: E022 Acid Extractable metals in Soils & E026 Mercury			
% Moisture	Sydney	Jan 28, 2014	0 Day
- Method: E005 Moisture Content			
Toxicity Characteristic Leaching Procedure (TCLP)	Sydney	Jan 28, 2014	0 Day
- Method: E019 TCLP Preparation			
Foreign Material - Type I	Sydney	Jan 23, 2014	0 Day
- Method: RTA Method T276			

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Site # 1254 & 14271

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Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: ADDITIONAL: GREEN SQUARE BLOCK 16 A/B 43182

Order No.:
Report #: 406446
Phone: 02 8245 0300
Fax:

Received: Jan 23, 2014 9:58 AM
Due: Jan 31, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Asphalt*	Polycyclic Aromatic Hydrocarbons	Toxicity Characteristic Leaching Procedure (TCLP)	Metals M8
Laboratory where analysis is conducted									
Melbourne Laboratory - NATA Site # 1254 & 14271									
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794									
External Laboratory									
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**					
FC018 2.8-3.0	Jan 13, 2014		TCLP	S14-Ja10932	X		X	X	X
FC018 4.1-4.3	Jan 13, 2014		TCLP	S14-Ja10933	X		X	X	X
FC021 0.1-0.2	Jan 13, 2014		TCLP	S14-Ja10934	X		X	X	
FC021 0.8-1.0	Jan 13, 2014		TCLP	S14-Ja10935	X		X	X	
FC021 2.9-3.1	Jan 13, 2014		TCLP	S14-Ja10936	X		X	X	X
FC021 4.3-4.5	Jan 13, 2014		TCLP	S14-Ja10937	X			X	X
FC027 1.8-2.0	Jan 13, 2014		TCLP	S14-Ja10938	X		X	X	X
FC027 4.3-4.5	Jan 13, 2014		TCLP	S14-Ja10939	X	X	X	X	X

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/L	< 0.001			0.001	Pass	
Acenaphthylene	mg/L	< 0.001			0.001	Pass	
Anthracene	mg/L	< 0.001			0.001	Pass	
Benz(a)anthracene	mg/L	< 0.001			0.001	Pass	
Benzo(a)pyrene	mg/L	< 0.001			0.001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.001			0.001	Pass	
Benzo(g.h.i)perylene	mg/L	< 0.001			0.001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.001			0.001	Pass	
Chrysene	mg/L	< 0.001			0.001	Pass	
Dibenz(a.h)anthracene	mg/L	< 0.001			0.001	Pass	
Fluoranthene	mg/L	< 0.001			0.001	Pass	
Fluorene	mg/L	< 0.001			0.001	Pass	
Indeno(1.2.3-cd)pyrene	mg/L	< 0.001			0.001	Pass	
Naphthalene	mg/L	< 0.001			0.001	Pass	
Phenanthrene	mg/L	< 0.001			0.001	Pass	
Pyrene	mg/L	< 0.001			0.001	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.01			0.01	Pass	
Cadmium	mg/L	< 0.005			0.005	Pass	
Chromium	mg/L	< 0.05			0.05	Pass	
Copper	mg/L	< 0.05			0.05	Pass	
Lead	mg/L	< 0.01			0.01	Pass	
Mercury	mg/L	< 0.001			0.001	Pass	
Nickel	mg/L	< 0.05			0.05	Pass	
Zinc	mg/L	< 0.05			0.05	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S14-Ja10933	CP	%	104			70-130	Pass	
Acenaphthylene	S14-Ja10933	CP	%	102			70-130	Pass	
Anthracene	S14-Ja10933	CP	%	103			70-130	Pass	
Benz(a)anthracene	S14-Ja10933	CP	%	117			70-130	Pass	
Benzo(a)pyrene	S14-Ja10933	CP	%	117			70-130	Pass	
Benzo(b&j)fluoranthene	S14-Ja10933	CP	%	125			70-130	Pass	
Benzo(g.h.i)perylene	S14-Ja10933	CP	%	99			70-130	Pass	
Benzo(k)fluoranthene	S14-Ja10933	CP	%	105			70-130	Pass	
Chrysene	S14-Ja10933	CP	%	100			70-130	Pass	
Dibenz(a.h)anthracene	S14-Ja10933	CP	%	104			70-130	Pass	
Fluoranthene	S14-Ja10933	CP	%	106			70-130	Pass	
Fluorene	S14-Ja10933	CP	%	111			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja10933	CP	%	109			70-130	Pass	
Naphthalene	S14-Ja10933	CP	%	104			70-130	Pass	
Phenanthrene	S14-Ja10933	CP	%	102			70-130	Pass	
Pyrene	S14-Ja10933	CP	%	106			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S14-Ja10939	CP	%	101			70-130	Pass	
Cadmium	S14-Ja10939	CP	%	101			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Chromium	S14-Ja10939	CP	%	98			70-130	Pass	
Copper	S14-Ja10939	CP	%	91			70-130	Pass	
Lead	S14-Ja10939	CP	%	81			70-130	Pass	
Mercury	S14-Ja10939	CP	%	98			70-130	Pass	
Nickel	S14-Ja10939	CP	%	92			70-130	Pass	
Zinc	S14-Ja10939	CP	%	83			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S14-Ja10932	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Acenaphthylene	S14-Ja10932	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Anthracene	S14-Ja10932	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benz(a)anthracene	S14-Ja10932	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(a)pyrene	S14-Ja10932	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(b&j)fluoranthene	S14-Ja10932	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(g.h.i)perylene	S14-Ja10932	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(k)fluoranthene	S14-Ja10932	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chrysene	S14-Ja10932	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibenz(a.h)anthracene	S14-Ja10932	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluoranthene	S14-Ja10932	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluorene	S14-Ja10932	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja10932	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Naphthalene	S14-Ja10932	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Phenanthrene	S14-Ja10932	CP	mg/L	0.001	0.001	6.0	30%	Pass	
Pyrene	S14-Ja10932	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S14-Ja10938	CP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Cadmium	S14-Ja10938	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Chromium	S14-Ja10938	CP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Copper	S14-Ja10938	CP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Lead	S14-Ja10938	CP	mg/L	0.48	0.45	7.0	30%	Pass	
Mercury	S14-Ja10938	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Nickel	S14-Ja10938	CP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Zinc	S14-Ja10938	CP	mg/L	1.1	1.1	5.0	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	Yes

Qualifier Codes/Comments

Code	Description
C01	Leachate Fluid Key: 1 - pH 5.0, 2 - pH 2.9, 3 - pH 9.2, 4 - Reagent (DI) water, 5 - Client sample, 6 - other
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs

Authorised By

Jean Heng	Client Services
James Norford	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)

Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

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#406446

From: Nathan Cussen [mailto:NCussen@jbsg.com.au]
Sent: Thursday, 23 January 2014 9:58 AM
To: Jean Heng
Subject: Lab Batch 405738 - Green Square Block 16 A/B

Hi Jean,

Could I please schedule the following TCLP analysis:

- FC018 2.8-3.0 PAH & METALS
- FC018 4.1-4.3 PAH & METALS
- FC021 0.1-0.2 PAH
- FC021 0.8-1.0 PAH
- FC021 2.9-3.1 PAH & METALS
- FC021 4.3-4.5 METALS
- FC027 1.8-2.0 PAH & METALS
- FC027 4.3-4.5 PAH & METALS (Could I please schedule coal tar analysis also)

Regards,
Nathan

Nathan Cussen | Senior Environmental Consultant| JBS&G
Sydney | Melbourne | Adelaide | Perth | Brisbane
Level 1, 50 Margaret Street, Sydney NSW 2000
T: 02 8245 0300 | M: 0431 401 022| www.jbsg.com.au
Contaminated Land | Groundwater Remediation | Auditing and Compliance | Assessments and Approvals | Occupational Hygiene and Monitoring

If you would like to send through large electronic files (>25MB), please use JBS&G's secure internet-based file delivery system located at http://dropbox.yousendit.com/JBSG. Place 'Nathan Cussen - Sydney in the subject.
This email message is intended only for the addressee(s) and contains information that may be confidential and/or copyright. If you are not the intended recipient please delete this email immediately. Use, disclosure or reproduction of this email by anyone other than the intended recipient(s) is strictly prohibited. No representation is made that this email or any attachments are free of viruses and the recipient is responsible for undertaking appropriate virus scanning. Any advice provided in or attached to this email is subject to limitations.

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NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Sample Receipt Advice

Company name: **JBS & G (NSW & WA) Pty Ltd**

Contact name: Nathan Cussen
Client job number: ADDITIONAL: GREEN SQUARE BLOCK 16A/B 43812
COC number: Not provided
Turn around time: 5 Day
Date/Time received: Jan 22, 2014 9:50 AM
Eurofins | mgt reference: **406251**

Sample information

☑ A detailed list of analytes logged into our LIMS, is included in the attached summary table.

☑ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt Sample Receipt : 7 degrees Celsius.

☑ All samples have been received as described on the above COC.

☑ COC has been completed correctly.

☑ Attempt to chill was evident.

☑ Appropriately preserved sample containers have been used.

☑ All samples were received in good condition.

☑ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.

☑ Organic samples had Teflon liners.

☒ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Notes

Additional from 405495

Contact notes

If you have any questions with respect to these samples please contact:

Jean Heng on Phone : (+61) (2) 9900 8400 or by e.mail: JeanHeng@eurofins.com.au

Results will be delivered electronically via e.mail to Nathan Cussen - ncussen@jbsg.com.au.

Eurofins | mgt Sample Receipt

eurofins | mgt

ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

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NATA # 1261
Site # 1254 & 14271

Sydney
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16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Order No.:
Report #: 406251
Phone: 02 8245 0300
Fax:

Received: Jan 22, 2014 9:50 AM
Due: Jan 30, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Client Job No.: ADDITIONAL: GREEN SQUARE BLOCK 16A/B 43812

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Lead	Polycyclic Aromatic Hydrocarbons	Toxicity Characteristic Leaching Procedure (TCLP)	Metals M8
Laboratory where analysis is conducted									
Melbourne Laboratory - NATA Site # 1254 & 14271									
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794									
External Laboratory									
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**					
FC016 1.8-2.0	Jan 10, 2014		TCLP	S14-Ja09749	X		X	X	X
FC016 3.8-4.0	Jan 10, 2014		TCLP	S14-Ja09750	X		X	X	
QC06	Jan 10, 2014		TCLP	S14-Ja09751	X			X	X
FC017 1.8-2.0	Jan 10, 2014		TCLP	S14-Ja09752	X		X	X	
FC017 0.1-0.2	Jan 10, 2014		TCLP	S14-Ja09753	X			X	X
FC019 0.2-0.3	Jan 10, 2014		TCLP	S14-Ja09754	X	X		X	
FC019 0.5-0.7	Jan 10, 2014		TCLP	S14-Ja09755	X		X	X	
FC019 3.5-3.7	Jan 10, 2014		TCLP	S14-Ja09756	X		X	X	X
FC019 1.0-1.2	Jan 10, 2014		TCLP	S14-Ja09757	X			X	X
FC020 0.2-0.3	Jan 10, 2014		TCLP	S14-Ja09758	X			X	X

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NATA # 1261
Site # 1254 & 14271

Sydney
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Lane Cove West NSW 2066
Phone : +61 2 9900 8400
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Brisbane Laboratory - NATA Site # 20794									
External Laboratory									
FC020 1.0-1.2	Jan 10, 2014		TCLP	S14-Ja09759	X		X	X	X
FC022 0.4-0.6	Jan 10, 2014		TCLP	S14-Ja09760	X			X	X
FC022 3.5-3.7	Jan 10, 2014		TCLP	S14-Ja09761	X			X	X
FC023 4.5-4.7	Jan 10, 2014		TCLP	S14-Ja09762	X		X	X	X
FC026 0.2-0.3	Jan 10, 2014		TCLP	S14-Ja09763	X		X	X	X

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Certificate of Analysis

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Nathan Cussen**

Report **406251-L**
Client Reference ADDITIONAL: GREEN SQUARE BLOCK 16A/B 43812
Received Date Jan 22, 2014

Client Sample ID **Sample Matrix** **Eurofins | mgt Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**FC016 1.8-2.0** **TCLP** **S14-Ja09749** **Jan 10, 2014**	**FC016 3.8-4.0** **TCLP** **S14-Ja09750** **Jan 10, 2014**	**QC06** **TCLP** **S14-Ja09751** **Jan 10, 2014**	**FC017 1.8-2.0** **TCLP** **S14-Ja09752** **Jan 10, 2014**
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.001	mg/L	< 0.001	< 0.001	-	0.003
Acenaphthylene	0.001	mg/L	< 0.001	< 0.001	-	0.001
Anthracene	0.001	mg/L	< 0.001	< 0.001	-	0.002
Benz(a)anthracene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Benzo(a)pyrene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Benzo(g.h.i)perylene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Benzo(k)fluoranthene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Chrysene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Dibenz(a.h)anthracene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Fluoranthene	0.001	mg/L	< 0.001	< 0.001	-	0.004
Fluorene	0.001	mg/L	< 0.001	< 0.001	-	0.004
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001	< 0.001	-	< 0.001
Naphthalene	0.001	mg/L	< 0.001	< 0.001	-	0.016
Phenanthrene	0.001	mg/L	< 0.001	< 0.001	-	0.012
Pyrene	0.001	mg/L	< 0.001	< 0.001	-	0.003
Total PAH	0.002	mg/L	< 0.001	< 0.001	-	0.045
2-Fluorobiphenyl (surr.)	1	%	110	121	-	104
p-Terphenyl-d14 (surr.)	1	%	127	129	-	127
Heavy Metals						
Arsenic	0.01	mg/L	< 0.01	-	< 0.01	-
Cadmium	0.005	mg/L	0.008	-	0.019	-
Chromium	0.05	mg/L	< 0.05	-	< 0.05	-
Copper	0.05	mg/L	< 0.05	-	0.08	-
Lead	0.01	mg/L	0.26	-	0.37	-
Mercury	0.001	mg/L	< 0.001	-	< 0.001	-
Nickel	0.05	mg/L	< 0.05	-	< 0.05	-
Zinc	0.05	mg/L	2.6	-	1.4	-
% Moisture	0.1	%	8.7	17	9.7	9.4
Toxicity Characteristic Leaching Procedure (TCLP)						
Leachate Fluid[C01]		comment	1.0	1.0	1.0	1.0
pH (TCLP - HCl addition)	0.1	units	1.8	1.8	1.8	1.8
pH (TCLP - initial)	0.1	units	8.9	9.0	8.5	8.9
pH (TCLP - off)	0.1	units	5.7	5.3	5.2	5.1

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC017 0.1-0.2 TCLP S14-Ja09753 Jan 10, 2014	FC019 0.2-0.3 TCLP S14-Ja09754 Jan 10, 2014	FC019 0.5-0.7 TCLP S14-Ja09755 Jan 10, 2014	FC019 3.5-3.7 TCLP S14-Ja09756 Jan 10, 2014
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.001	mg/L	-	-	< 0.001	0.003
Acenaphthylene	0.001	mg/L	-	-	< 0.001	0.006
Anthracene	0.001	mg/L	-	-	< 0.001	0.001
Benz(a)anthracene	0.001	mg/L	-	-	< 0.001	< 0.001
Benzo(a)pyrene	0.001	mg/L	-	-	< 0.001	< 0.001
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	-	-	< 0.001	< 0.001
Benzo(g.h.i)perylene	0.001	mg/L	-	-	< 0.001	< 0.001
Benzo(k)fluoranthene	0.001	mg/L	-	-	< 0.001	< 0.001
Chrysene	0.001	mg/L	-	-	< 0.001	< 0.001
Dibenz(a.h)anthracene	0.001	mg/L	-	-	< 0.001	< 0.001
Fluoranthene	0.001	mg/L	-	-	0.001	0.003
Fluorene	0.001	mg/L	-	-	< 0.001	0.005
Indeno(1.2.3-cd)pyrene	0.001	mg/L	-	-	< 0.001	< 0.001
Naphthalene	0.001	mg/L	-	-	< 0.001	0.007
Phenanthrene	0.001	mg/L	-	-	0.002	0.007
Pyrene	0.001	mg/L	-	-	0.001	0.003
Total PAH	0.002	mg/L	-	-	0.004	0.035
2-Fluorobiphenyl (surr.)	1	%	-	-	115	127
p-Terphenyl-d14 (surr.)	1	%	-	-	123	129
Heavy Metals						
Arsenic	0.01	mg/L	< 0.01	-	-	< 0.01
Cadmium	0.005	mg/L	0.007	-	-	0.005
Chromium	0.05	mg/L	< 0.05	-	-	< 0.05
Copper	0.05	mg/L	0.08	-	-	0.08
Lead	0.01	mg/L	0.33	0.96	-	0.56
Mercury	0.001	mg/L	< 0.001	-	-	< 0.001
Nickel	0.05	mg/L	< 0.05	-	-	< 0.05
Zinc	0.05	mg/L	1.8	-	-	1.9
% Moisture	0.1	%	6.0	3.7	11	15
Toxicity Characteristic Leaching Procedure (TCLP)						
Leachate Fluid[C01]		comment	1.0	1.0	1.0	1.0
pH (TCLP - HCl addition)	0.1	units	1.8	1.8	1.8	1.8
pH (TCLP - initial)	0.1	units	8.7	8.9	8.5	8.9
pH (TCLP - off)	0.1	units	5.3	5.3	6.3	5.2

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC019 1.0-1.2 TCLP S14-Ja09757 Jan 10, 2014	FC020 0.2-0.3 TCLP S14-Ja09758 Jan 10, 2014	FC020 1.0-1.2 TCLP S14-Ja09759 Jan 10, 2014	FC022 0.4-0.6 TCLP S14-Ja09760 Jan 10, 2014
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.001	mg/L	-	-	0.002	-
Acenaphthylene	0.001	mg/L	-	-	0.001	-
Anthracene	0.001	mg/L	-	-	0.001	-
Benz(a)anthracene	0.001	mg/L	-	-	< 0.001	-
Benzo(a)pyrene	0.001	mg/L	-	-	< 0.001	-
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	-	-	< 0.001	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC019 1.0-1.2 TCLP S14-Ja09757 Jan 10, 2014	FC020 0.2-0.3 TCLP S14-Ja09758 Jan 10, 2014	FC020 1.0-1.2 TCLP S14-Ja09759 Jan 10, 2014	FC022 0.4-0.6 TCLP S14-Ja09760 Jan 10, 2014
Polycyclic Aromatic Hydrocarbons						
Benzo(g.h.i)perylene	0.001	mg/L	-	-	< 0.001	-
Benzo(k)fluoranthene	0.001	mg/L	-	-	< 0.001	-
Chrysene	0.001	mg/L	-	-	< 0.001	-
Dibenz(a.h)anthracene	0.001	mg/L	-	-	< 0.001	-
Fluoranthene	0.001	mg/L	-	-	0.003	-
Fluorene	0.001	mg/L	-	-	0.001	-
Indeno(1.2.3-cd)pyrene	0.001	mg/L	-	-	< 0.001	-
Naphthalene	0.001	mg/L	-	-	0.002	-
Phenanthrene	0.001	mg/L	-	-	0.005	-
Pyrene	0.001	mg/L	-	-	0.003	-
Total PAH	0.002	mg/L	-	-	0.018	-
2-Fluorobiphenyl (surr.)	1	%	-	-	126	-
p-Terphenyl-d14 (surr.)	1	%	-	-	129	-
Heavy Metals						
Arsenic	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Cadmium	0.005	mg/L	0.011	0.007	0.009	0.008
Chromium	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
Copper	0.05	mg/L	< 0.05	< 0.05	0.07	0.13
Lead	0.01	mg/L	0.32	0.20	0.33	0.27
Mercury	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Nickel	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
Zinc	0.05	mg/L	2.3	0.86	1.7	1.4
% Moisture	0.1	%	10	6.6	11	6.3
Toxicity Characteristic Leaching Procedure (TCLP)						
Leachate Fluid[C01]		comment	1.0	1.0	1.0	1.0
pH (TCLP - HCl addition)	0.1	units	1.8	1.8	1.8	1.8
pH (TCLP - initial)	0.1	units	9.1	9.0	9.0	9.0
pH (TCLP - off)	0.1	units	5.8	5.8	5.5	5.3

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC022 3.5-3.7 TCLP S14-Ja09761 Jan 10, 2014	FC023 4.5-4.7 TCLP S14-Ja09762 Jan 10, 2014	FC026 0.2-0.3 TCLP S14-Ja09763 Jan 10, 2014
Polycyclic Aromatic Hydrocarbons					
Acenaphthene	0.001	mg/L	-	0.001	< 0.001
Acenaphthylene	0.001	mg/L	-	< 0.001	< 0.001
Anthracene	0.001	mg/L	-	< 0.001	< 0.001
Benz(a)anthracene	0.001	mg/L	-	< 0.001	< 0.001
Benzo(a)pyrene	0.001	mg/L	-	< 0.001	< 0.001
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	-	< 0.001	< 0.001
Benzo(g.h.i)perylene	0.001	mg/L	-	< 0.001	< 0.001
Benzo(k)fluoranthene	0.001	mg/L	-	< 0.001	< 0.001
Chrysene	0.001	mg/L	-	< 0.001	< 0.001
Dibenz(a.h)anthracene	0.001	mg/L	-	< 0.001	< 0.001
Fluoranthene	0.001	mg/L	-	< 0.001	0.002
Fluorene	0.001	mg/L	-	< 0.001	< 0.001

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC022 3.5-3.7 TCLP S14-Ja09761 Jan 10, 2014	FC023 4.5-4.7 TCLP S14-Ja09762 Jan 10, 2014	FC026 0.2-0.3 TCLP S14-Ja09763 Jan 10, 2014
Polycyclic Aromatic Hydrocarbons					
Indeno(1.2.3-cd)pyrene	0.001	mg/L	-	< 0.001	< 0.001
Naphthalene	0.001	mg/L	-	0.004	0.001
Phenanthrene	0.001	mg/L	-	0.001	0.003
Pyrene	0.001	mg/L	-	< 0.001	0.002
Total PAH	0.002	mg/L	-	0.006	0.008
2-Fluorobiphenyl (surr.)	1	%	-	112	116
p-Terphenyl-d14 (surr.)	1	%	-	128	124
Heavy Metals					
Arsenic	0.01	mg/L	< 0.01	< 0.01	< 0.01
Cadmium	0.005	mg/L	0.010	0.008	0.011
Chromium	0.05	mg/L	< 0.05	< 0.05	< 0.05
Copper	0.05	mg/L	0.09	< 0.05	0.07
Lead	0.01	mg/L	0.39	0.16	0.40
Mercury	0.001	mg/L	< 0.001	< 0.001	< 0.001
Nickel	0.05	mg/L	< 0.05	< 0.05	< 0.05
Zinc	0.05	mg/L	1.3	0.97	2.0
% Moisture	0.1	%	15	10	10
Toxicity Characteristic Leaching Procedure (TCLP)					
Leachate Fluid[C01]		comment	1.0	1.0	1.0
pH (TCLP - HCl addition)	0.1	units	1.8	1.8	1.8
pH (TCLP - initial)	0.1	units	9.0	9.1	9.0
pH (TCLP - off)	0.1	units	5.7	5.9	5.7

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Polycyclic Aromatic Hydrocarbons	Sydney	Jan 24, 2014	7 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Metals M8	Sydney	Jan 23, 2014	28 Day
- Method: E022 Acid Extractable metals in Soils & E026 Mercury			
Heavy Metals	Sydney	Jan 23, 2014	180 Day
- Method: E022 Acid Extractable metals in Soils			
% Moisture	Sydney	Jan 23, 2014	0 Day
- Method: E005 Moisture Content			
Toxicity Characteristic Leaching Procedure (TCLP)	Sydney	Jan 23, 2014	0 Day
- Method: E019 TCLP Preparation			

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Sydney Laboratory - NATA Site # 18217					X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794									
External Laboratory									
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**					
FC016 1.8-2.0	Jan 10, 2014		TCLP	S14-Ja09749	X		X	X	X
FC016 3.8-4.0	Jan 10, 2014		TCLP	S14-Ja09750	X		X	X	
QC06	Jan 10, 2014		TCLP	S14-Ja09751	X			X	X
FC017 1.8-2.0	Jan 10, 2014		TCLP	S14-Ja09752	X		X	X	
FC017 0.1-0.2	Jan 10, 2014		TCLP	S14-Ja09753	X			X	X
FC019 0.2-0.3	Jan 10, 2014		TCLP	S14-Ja09754	X	X		X	
FC019 0.5-0.7	Jan 10, 2014		TCLP	S14-Ja09755	X		X	X	
FC019 3.5-3.7	Jan 10, 2014		TCLP	S14-Ja09756	X		X	X	X
FC019 1.0-1.2	Jan 10, 2014		TCLP	S14-Ja09757	X			X	X
FC020 0.2-0.3	Jan 10, 2014		TCLP	S14-Ja09758	X			X	X

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Sydney Laboratory - NATA Site # 18217					X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794									
External Laboratory									
FC020 1.0-1.2	Jan 10, 2014		TCLP	S14-Ja09759	X		X	X	X
FC022 0.4-0.6	Jan 10, 2014		TCLP	S14-Ja09760	X			X	X
FC022 3.5-3.7	Jan 10, 2014		TCLP	S14-Ja09761	X			X	X
FC023 4.5-4.7	Jan 10, 2014		TCLP	S14-Ja09762	X		X	X	X
FC026 0.2-0.3	Jan 10, 2014		TCLP	S14-Ja09763	X		X	X	X

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/L	< 0.001			0.001	Pass	
Acenaphthylene	mg/L	< 0.001			0.001	Pass	
Anthracene	mg/L	< 0.001			0.001	Pass	
Benz(a)anthracene	mg/L	< 0.001			0.001	Pass	
Benzo(a)pyrene	mg/L	< 0.001			0.001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.001			0.001	Pass	
Benzo(g.h.i)perylene	mg/L	< 0.001			0.001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.001			0.001	Pass	
Chrysene	mg/L	< 0.001			0.001	Pass	
Dibenz(a.h)anthracene	mg/L	< 0.001			0.001	Pass	
Fluoranthene	mg/L	< 0.001			0.001	Pass	
Fluorene	mg/L	< 0.001			0.001	Pass	
Indeno(1.2.3-cd)pyrene	mg/L	< 0.001			0.001	Pass	
Naphthalene	mg/L	< 0.001			0.001	Pass	
Phenanthrene	mg/L	< 0.001			0.001	Pass	
Pyrene	mg/L	< 0.001			0.001	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.01			0.01	Pass	
Cadmium	mg/L	< 0.005			0.005	Pass	
Chromium	mg/L	< 0.05			0.05	Pass	
Copper	mg/L	< 0.05			0.05	Pass	
Lead	mg/L	< 0.01			0.01	Pass	
Mercury	mg/L	< 0.001			0.001	Pass	
Nickel	mg/L	< 0.05			0.05	Pass	
Zinc	mg/L	< 0.05			0.05	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S14-Ja09745	NCP	%	118			70-130	Pass	
Acenaphthylene	S14-Ja09745	NCP	%	110			70-130	Pass	
Anthracene	S14-Ja09745	NCP	%	115			70-130	Pass	
Benz(a)anthracene	S14-Ja09745	NCP	%	109			70-130	Pass	
Benzo(a)pyrene	S14-Ja09745	NCP	%	123			70-130	Pass	
Benzo(b&j)fluoranthene	S14-Ja09745	NCP	%	111			70-130	Pass	
Benzo(g.h.i)perylene	S14-Ja09745	NCP	%	102			70-130	Pass	
Benzo(k)fluoranthene	S14-Ja09745	NCP	%	123			70-130	Pass	
Chrysene	S14-Ja09745	NCP	%	120			70-130	Pass	
Dibenz(a.h)anthracene	S14-Ja09745	NCP	%	101			70-130	Pass	
Fluoranthene	S14-Ja09745	NCP	%	126			70-130	Pass	
Fluorene	S14-Ja09745	NCP	%	120			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja09745	NCP	%	108			70-130	Pass	
Naphthalene	S14-Ja09745	NCP	%	129			70-130	Pass	
Phenanthrene	S14-Ja09745	NCP	%	123			70-130	Pass	
Pyrene	S14-Ja09745	NCP	%	127			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S14-Ja09760	CP	%	98			70-130	Pass	
Cadmium	S14-Ja09760	CP	%	99			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Chromium	S14-Ja09760	CP	%	94			70-130	Pass	
Copper	S14-Ja09760	CP	%	91			70-130	Pass	
Lead	S14-Ja09760	CP	%	88			70-130	Pass	
Mercury	S14-Ja09760	CP	%	97			70-130	Pass	
Nickel	S14-Ja09760	CP	%	91			70-130	Pass	
Zinc	S14-Ja09760	CP	%	92			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Acenaphthylene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Anthracene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benz(a)anthracene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(a)pyrene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(b&j)fluoranthene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(g.h.i)perylene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(k)fluoranthene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chrysene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibenz(a.h)anthracene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluoranthene	S14-Ja09744	NCP	mg/L	0.0030	0.0030	14	30%	Pass	
Fluorene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Naphthalene	S14-Ja09744	NCP	mg/L	0.017	0.017	1.0	30%	Pass	
Phenanthrene	S14-Ja09744	NCP	mg/L	0.0030	0.0030	9.0	30%	Pass	
Pyrene	S14-Ja09744	NCP	mg/L	0.0030	0.0030	13	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S14-Ja09758	CP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Cadmium	S14-Ja09758	CP	mg/L	0.007	0.007	4.0	30%	Pass	
Chromium	S14-Ja09758	CP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Copper	S14-Ja09758	CP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Lead	S14-Ja09758	CP	mg/L	0.20	0.20	<1	30%	Pass	
Mercury	S14-Ja09758	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Nickel	S14-Ja09758	CP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Zinc	S14-Ja09758	CP	mg/L	0.86	0.86	1.0	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
C01	Leachate Fluid Key: 1 - pH 5.0, 2 - pH 2.9, 3 - pH 9.2, 4 - Reagent (DI) water, 5 - Client sample, 6 - other
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs

Authorised By

Jean Heng	Client Services
James Norford	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)

Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

Eurofins | mgt shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins | mgt be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

From: Nathan Cussen [mailto:NCussen@jbsg.com.au]
Sent: Wednesday, 22 January 2014 9:52 AM
To: Jean Heng
Subject: Additional analysis lab batch 405495 - Green Square 43812 Block 16A/B

Hi Jean,

Can I please schedule the following TCLP analysis:

- FC016 1.8-2.0 METALS AND PAH
- FC016 3.8-4.0 PAH
- QC06 METALS
- FC017 1.8-2.0 PAH
- FC017 0.1-0.2 METALS
- FC019 0.2-0.3 LEAD
- FC019 0.5-0.7 PAH
- FC019 3.5-3.7 PAH AND METALS
- FC019 1.0-1.2 METALS
- FC020 0.2-0.3 METALS
- FC020 1.0-1.2 PAH/METALS
- FC022 0.4-0.6 METALS
- FC022 3.5-3.7 METALS
- FC023 4.5-4.7 PAH/METALS
- FC026 0.2-0.3 PAH/METALS

Cheers
Nathan

#406251

Nathan Cussen | Senior Environmental Consultant| JBS&G
Sydney | Melbourne | Adelaide | Perth | Brisbane
Level 1, 50 Margaret Street, Sydney NSW 2000
T: 02 8245 0300 | M: 0431 401 022| www.jbsg.com.au
Contaminated Land | Groundwater Remediation | Auditing and Compliance | Assessments and Approvals | Occupational Hygiene and Monitoring

If you would like to send through large electronic files (>25MB), please use JBS&G's secure internet-based file delivery system located at http://dropbox.yousendit.com/JBSG. Place 'Nathan Cussen - Sydney in the subject.
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ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

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NATA # 1261
Site # 1254 & 14271

Sydney
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Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Sample Receipt Advice

Company name: **JBS & G (NSW & WA) Pty Ltd**

Contact name: Nathan Cussen
Client job number: GREEN SQUARE BLOCK 16 AB 43182
COC number: Not provided
Turn around time: 5 Day
Date/Time received: Jan 16, 2014 3:20 PM
Eurofins | mgt reference: **405817**

Sample information

☑ A detailed list of analytes logged into our LIMS, is included in the attached summary table.

☑ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt Sample Receipt : 11 degrees Celsius.

☑ All samples have been received as described on the above COC.

☑ COC has been completed correctly.

☑ Attempt to chill was evident.

☑ Appropriately preserved sample containers have been used.

☑ All samples were received in good condition.

☑ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.

☑ Organic samples had Teflon liners.

☒ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Contact notes

If you have any questions with respect to these samples please contact:

Jean Heng on Phone : (+61) (2) 9900 8400 or by e.mail: JeanHeng@eurofins.com.au

Results will be delivered electronically via e.mail to Nathan Cussen - ncussen@jbsg.com.au.

Eurofins | mgt Sample Receipt

eurofins | mgt

ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

Melbourne
3-5 Kingston Town Close
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NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: GREEN SQUARE BLOCK 16 AB 43182

Order No.:
Report #: 405817
Phone: 02 8245 0300
Fax:

Received: Jan 16, 2014 3:20 PM
Due: Jan 23, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	Total Recoverable Hydrocarbons	Volatile Organics	JBS&G Suite 2
Laboratory where analysis is conducted													
Melbourne Laboratory - NATA Site # 1254 & 14271													
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794													
External Laboratory													
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**									
FC017 6.0-6.1	Jan 15, 2014		Soil	S14-Ja06753	X	X		X		X	X	X	
FC017 7.0-7.1	Jan 15, 2014		Soil	S14-Ja06754			X						
FC018 6.0-6.1	Jan 15, 2014		Soil	S14-Ja06755			X						
FC018 7.0-7.1	Jan 15, 2014		Soil	S14-Ja06756			X						
FC018 8.5-8.7	Jan 15, 2014		Soil	S14-Ja06757	X	X		X	X	X	X		
FC019 6.0-6.1	Jan 15, 2014		Soil	S14-Ja06758	X	X		X	X	X	X		
FC020 6.0-6.1	Jan 15, 2014		Soil	S14-Ja06759			X						
FC020 7.0-7.1	Jan 15, 2014		Soil	S14-Ja06760	X	X		X	X	X	X		
FC021 6.0-6.1	Jan 15, 2014		Soil	S14-Ja06761	X	X		X					X
FC021 7.0-7.1	Jan 15, 2014		Soil	S14-Ja06762			X						

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ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

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Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: GREEN SQUARE BLOCK 16 AB 43182

Order No.:
Report #: 405817
Phone: 02 8245 0300
Fax:

Received: Jan 16, 2014 3:20 PM
Due: Jan 23, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	Total Recoverable Hydrocarbons	Volatile Organics	JBS&G Suite 2
Laboratory where analysis is conducted													
Melbourne Laboratory - NATA Site # 1254 & 14271													
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794													
External Laboratory													
FC021 8.5-8.7	Jan 15, 2014		Soil	S14-Ja06763	X	X		X	X	X	X	X	
FC023 6.0-6.1	Jan 15, 2014		Soil	S14-Ja06764	X	X		X	X	X	X		
FC023 7.0-7.1	Jan 15, 2014		Soil	S14-Ja06765			X						
FC023 8.5-8.7	Jan 15, 2014		Soil	S14-Ja06766	X	X		X		X	X	X	
QC17	Jan 15, 2014		Soil	S14-Ja06767			X						

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Certificate of Analysis

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Nathan Cussen**

Report **405817-S**
Client Reference GREEN SQUARE BLOCK 16 AB 43182
Received Date Jan 16, 2014

Client Sample ID **Sample Matrix** **Eurofins | mgt Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**FC017 6.0-6.1** **Soil** **S14-Ja06753** **Jan 15, 2014**	**FC018 8.5-8.7** **Soil** **S14-Ja06757** **Jan 15, 2014**	**FC019 6.0-6.1** **Soil** **S14-Ja06758** **Jan 15, 2014**	**FC020 7.0-7.1** **Soil** **S14-Ja06760** **Jan 15, 2014**
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	28
TRH C15-C28	50	mg/kg	690	560	100	620
TRH C29-C36	50	mg/kg	540	440	81	490
TRH C10-36 (Total)	50	mg/kg	1200	1000	180	1100
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	0.6	< 0.5	< 0.5	5.3
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	1100	950	160	1000
TRH >C34-C40	100	mg/kg	380	270	< 100	340
Volatile Organics						
1.1-Dichloroethane	0.05	mg/kg	< 0.05	-	-	-
1.1-Dichloroethene	0.05	mg/kg	< 0.05	-	-	-
1.1.1-Trichloroethane	0.05	mg/kg	< 0.05	-	-	-
1.1.1.2-Tetrachloroethane	0.05	mg/kg	< 0.05	-	-	-
1.1.2-Trichloroethane	0.05	mg/kg	< 0.05	-	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dibromoethane	0.05	mg/kg	< 0.05	-	-	-
1.2-Dichlorobenzene	0.05	mg/kg	< 0.05	-	-	-
1.2-Dichloroethane	0.05	mg/kg	< 0.05	-	-	-
1.2-Dichloropropane	0.05	mg/kg	< 0.05	-	-	-
1.2.3-Trichloropropane	0.05	mg/kg	< 0.05	-	-	-
1.2.4-Trimethylbenzene	0.05	mg/kg	< 0.05	-	-	-
1.3-Dichlorobenzene	0.05	mg/kg	< 0.05	-	-	-
1.3-Dichloropropane	0.05	mg/kg	< 0.05	-	-	-
1.3.5-Trimethylbenzene	0.05	mg/kg	< 0.05	-	-	-
1.4-Dichlorobenzene	0.05	mg/kg	< 0.05	-	-	-
2-Butanone (MEK)	0.05	mg/kg	< 0.05	-	-	-
4-Chlorotoluene	0.05	mg/kg	< 0.05	-	-	-
4-Methyl-2-pentanone (MIBK)	0.05	mg/kg	< 0.05	-	-	-
Benzene	0.1	mg/kg	< 0.1	-	-	-
Bromobenzene	0.05	mg/kg	< 0.05	-	-	-
Bromochloromethane	0.05	mg/kg	< 0.05	-	-	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC017 6.0-6.1 Soil S14-Ja06753 Jan 15, 2014	FC018 8.5-8.7 Soil S14-Ja06757 Jan 15, 2014	FC019 6.0-6.1 Soil S14-Ja06758 Jan 15, 2014	FC020 7.0-7.1 Soil S14-Ja06760 Jan 15, 2014
Volatile Organics						
Bromodichloromethane	0.05	mg/kg	< 0.05	-	-	-
Bromoform	0.05	mg/kg	< 0.05	-	-	-
Bromomethane	0.05	mg/kg	< 0.05	-	-	-
Carbon disulfide	0.05	mg/kg	< 0.05	-	-	-
Carbon Tetrachloride	0.05	mg/kg	< 0.05	-	-	-
Chlorobenzene	0.05	mg/kg	< 0.05	-	-	-
Chloroethane	0.05	mg/kg	< 0.05	-	-	-
Chloroform	0.05	mg/kg	< 0.05	-	-	-
Chloromethane	0.05	mg/kg	< 0.05	-	-	-
cis-1.2-Dichloroethene	0.05	mg/kg	< 0.05	-	-	-
cis-1.3-Dichloropropene	0.05	mg/kg	< 0.05	-	-	-
Dibromochloromethane	0.05	mg/kg	< 0.05	-	-	-
Dibromomethane	0.5	mg/kg	< 0.5	-	-	-
Dichlorodifluoromethane	0.05	mg/kg	< 0.05	-	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	-
Iodomethane	0.05	mg/kg	< 0.05	-	-	-
Isopropyl benzene (Cumene)	0.05	mg/kg	< 0.05	-	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	-
Methylene Chloride	0.05	mg/kg	< 0.05	-	-	-
o-Xylene	0.1	mg/kg	< 0.1	-	-	-
Styrene	0.05	mg/kg	< 0.05	-	-	-
Tetrachloroethene	0.05	mg/kg	< 0.05	-	-	-
Toluene	0.1	mg/kg	< 0.1	-	-	-
trans-1.2-Dichloroethene	0.05	mg/kg	< 0.05	-	-	-
trans-1.3-Dichloropropene	0.05	mg/kg	< 0.05	-	-	-
Trichloroethene	0.05	mg/kg	< 0.05	-	-	-
Trichlorofluoromethane	0.05	mg/kg	< 0.05	-	-	-
Vinyl chloride	0.05	mg/kg	< 0.05	-	-	-
Xylenes - Total	0.3	mg/kg	< 0.3	-	-	-
4-Bromofluorobenzene (surr.)	1	%	124	-	-	-
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	-	0.7	< 0.5	1.2
Acenaphthylene	0.5	mg/kg	-	0.8	0.7	2.9
Anthracene	0.5	mg/kg	-	4.0	1.8	6.7
Benz(a)anthracene	0.5	mg/kg	-	13	4.0	11
Benzo(a)pyrene	0.5	mg/kg	-	14	3.8	9.9
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	8.4	2.6	5.3
Benzo(g.h.i)perylene	0.5	mg/kg	-	7.0	1.9	4.8
Benzo(k)fluoranthene	0.5	mg/kg	-	14	3.6	11
Chrysene	0.5	mg/kg	-	12	3.8	9.8
Dibenz(a.h)anthracene	0.5	mg/kg	-	2.0	0.6	1.4
Fluoranthene	0.5	mg/kg	-	21	7.2	21
Fluorene	0.5	mg/kg	-	1.4	< 0.5	4.6
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	7.0	1.7	4.7
Naphthalene	0.5	mg/kg	-	0.7	< 0.5	7.9
Phenanthrene	0.5	mg/kg	-	9.2	4.1	15
Pyrene	0.5	mg/kg	-	19	7.4	18
Total PAH	0.5	mg/kg	-	130	43	140
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	-	20	5.7	15

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC017 6.0-6.1 Soil S14-Ja06753 Jan 15, 2014	FC018 8.5-8.7 Soil S14-Ja06757 Jan 15, 2014	FC019 6.0-6.1 Soil S14-Ja06758 Jan 15, 2014	FC020 7.0-7.1 Soil S14-Ja06760 Jan 15, 2014
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	-	20	5.7	15
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	-	20	5.7	15
2-Fluorobiphenyl (surr.)	1	%	-	108	92	104
p-Terphenyl-d14 (surr.)	1	%	-	114	98	108
Conductivity (1:5 aqueous extract at 25°C)	5	uS/cm	170	350	170	250
pH (1:5 Aqueous extract)	0.1	units	7.4	7.6	8.4	7.7
% Moisture	0.1	%	17	19	15	19
Heavy Metals						
Arsenic	2	mg/kg	3.3	15	6.5	5.2
Cadmium	0.4	mg/kg	0.5	0.9	1.0	0.9
Chromium	5	mg/kg	90	27	19	34
Copper	5	mg/kg	100	520	110	150
Lead	5	mg/kg	280	500	280	450
Mercury	0.05	mg/kg	0.29	1.2	1.1	0.43
Nickel	5	mg/kg	7.6	21	16	10
Zinc	5	mg/kg	280	510	330	730

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC021 6.0-6.1 Soil S14-Ja06761 Jan 15, 2014	FC021 8.5-8.7 Soil S14-Ja06763 Jan 15, 2014	FC023 6.0-6.1 Soil S14-Ja06764 Jan 15, 2014	FC023 8.5-8.7 Soil S14-Ja06766 Jan 15, 2014
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	280	510	200	76
TRH C29-C36	50	mg/kg	370	480	130	< 50
TRH C10-36 (Total)	50	mg/kg	650	990	330	76
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	-	-
Toluene	0.1	mg/kg	< 0.1	-	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	-
o-Xylene	0.1	mg/kg	< 0.1	-	-	-
Xylenes - Total	0.3	mg/kg	< 0.3	-	-	-
4-Bromofluorobenzene (surr.)	1	%	89	-	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	0.7	0.6
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	590	940	310	100
TRH >C34-C40	100	mg/kg	320	260	< 100	< 100

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC021 6.0-6.1 Soil S14-Ja06761 Jan 15, 2014	FC021 8.5-8.7 Soil S14-Ja06763 Jan 15, 2014	FC023 6.0-6.1 Soil S14-Ja06764 Jan 15, 2014	FC023 8.5-8.7 Soil S14-Ja06766 Jan 15, 2014
Volatile Organics						
1.1-Dichloroethane	0.05	mg/kg	-	< 0.05	-	< 0.05
1.1-Dichloroethene	0.05	mg/kg	-	< 0.05	-	< 0.05
1.1.1-Trichloroethane	0.05	mg/kg	-	< 0.05	-	< 0.05
1.1.1.2-Tetrachloroethane	0.05	mg/kg	-	< 0.05	-	< 0.05
1.1.2-Trichloroethane	0.05	mg/kg	-	< 0.05	-	< 0.05
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	< 0.5
1.2-Dibromoethane	0.05	mg/kg	-	< 0.05	-	< 0.05
1.2-Dichlorobenzene	0.05	mg/kg	-	< 0.05	-	< 0.05
1.2-Dichloroethane	0.05	mg/kg	-	< 0.05	-	< 0.05
1.2-Dichloropropane	0.05	mg/kg	-	< 0.05	-	< 0.05
1.2.3-Trichloropropane	0.05	mg/kg	-	< 0.05	-	< 0.05
1.2.4-Trimethylbenzene	0.05	mg/kg	-	< 0.05	-	< 0.05
1.3-Dichlorobenzene	0.05	mg/kg	-	< 0.05	-	< 0.05
1.3-Dichloropropane	0.05	mg/kg	-	< 0.05	-	< 0.05
1.3.5-Trimethylbenzene	0.05	mg/kg	-	< 0.05	-	< 0.05
1.4-Dichlorobenzene	0.05	mg/kg	-	< 0.05	-	< 0.05
2-Butanone (MEK)	0.05	mg/kg	-	< 0.05	-	< 0.05
4-Chlorotoluene	0.05	mg/kg	-	< 0.05	-	< 0.05
4-Methyl-2-pentanone (MIBK)	0.05	mg/kg	-	< 0.05	-	< 0.05
Benzene	0.1	mg/kg	-	< 0.1	-	< 0.1
Bromobenzene	0.05	mg/kg	-	< 0.05	-	< 0.05
Bromochloromethane	0.05	mg/kg	-	< 0.05	-	< 0.05
Bromodichloromethane	0.05	mg/kg	-	< 0.05	-	< 0.05
Bromoform	0.05	mg/kg	-	< 0.05	-	< 0.05
Bromomethane	0.05	mg/kg	-	< 0.05	-	< 0.05
Carbon disulfide	0.05	mg/kg	-	< 0.05	-	< 0.05
Carbon Tetrachloride	0.05	mg/kg	-	< 0.05	-	< 0.05
Chlorobenzene	0.05	mg/kg	-	< 0.05	-	< 0.05
Chloroethane	0.05	mg/kg	-	< 0.05	-	< 0.05
Chloroform	0.05	mg/kg	-	< 0.05	-	< 0.05
Chloromethane	0.05	mg/kg	-	< 0.05	-	< 0.05
cis-1.2-Dichloroethene	0.05	mg/kg	-	< 0.05	-	< 0.05
cis-1.3-Dichloropropene	0.05	mg/kg	-	< 0.05	-	< 0.05
Dibromochloromethane	0.05	mg/kg	-	< 0.05	-	< 0.05
Dibromomethane	0.5	mg/kg	-	< 0.5	-	< 0.5
Dichlorodifluoromethane	0.05	mg/kg	-	< 0.05	-	< 0.05
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	< 0.1
Iodomethane	0.05	mg/kg	-	< 0.05	-	< 0.05
Isopropyl benzene (Cumene)	0.05	mg/kg	-	< 0.05	-	< 0.05
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	< 0.2
Methylene Chloride	0.05	mg/kg	-	< 0.05	-	< 0.05
o-Xylene	0.1	mg/kg	-	< 0.1	-	< 0.1
Styrene	0.05	mg/kg	-	< 0.05	-	< 0.05
Tetrachloroethene	0.05	mg/kg	-	< 0.05	-	< 0.05
Toluene	0.1	mg/kg	-	< 0.1	-	< 0.1
trans-1.2-Dichloroethene	0.05	mg/kg	-	< 0.05	-	< 0.05
trans-1.3-Dichloropropene	0.05	mg/kg	-	< 0.05	-	< 0.05
Trichloroethene	0.05	mg/kg	-	< 0.05	-	< 0.05
Trichlorofluoromethane	0.05	mg/kg	-	< 0.05	-	< 0.05

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC021 6.0-6.1 Soil S14-Ja06761 Jan 15, 2014	FC021 8.5-8.7 Soil S14-Ja06763 Jan 15, 2014	FC023 6.0-6.1 Soil S14-Ja06764 Jan 15, 2014	FC023 8.5-8.7 Soil S14-Ja06766 Jan 15, 2014
Volatile Organics						
Vinyl chloride	0.05	mg/kg	-	< 0.05	-	< 0.05
Xylenes - Total	0.3	mg/kg	-	< 0.3	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	123	-	123
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	0.8	-
Acenaphthylene	0.5	mg/kg	0.8	< 0.5	1.2	-
Anthracene	0.5	mg/kg	2.2	1.9	3.1	-
Benz(a)anthracene	0.5	mg/kg	5.4	4.6	6.1	-
Benzo(a)pyrene	0.5	mg/kg	6.4	5.0	5.9	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	4.1	4.0	4.3	-
Benzo(g.h.i)perylene	0.5	mg/kg	3.7	2.7	2.7	-
Benzo(k)fluoranthene	0.5	mg/kg	6.8	5.4	5.0	-
Chrysene	0.5	mg/kg	5.6	4.7	5.7	-
Dibenz(a.h)anthracene	0.5	mg/kg	1.1	0.8	0.8	-
Fluoranthene	0.5	mg/kg	8.5	7.1	11	-
Fluorene	0.5	mg/kg	0.7	0.6	1.4	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	3.3	2.6	2.6	-
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	1.4	-
Phenanthrene	0.5	mg/kg	3.0	3.3	8.6	-
Pyrene	0.5	mg/kg	8.8	7.5	11	-
Total PAH	0.5	mg/kg	60	50	72	-
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	9.6	7.5	8.6	-
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	9.6	7.5	8.6	-
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	9.6	7.5	8.6	-
2-Fluorobiphenyl (surr.)	1	%	97	88	95	-
p-Terphenyl-d14 (surr.)	1	%	99	90	102	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	-
4.4'-DDD	0.05	mg/kg	< 0.05	-	-	-
4.4'-DDE	0.05	mg/kg	< 0.05	-	-	-
4.4'-DDT	0.05	mg/kg	< 0.05	-	-	-
a-BHC	0.05	mg/kg	< 0.05	-	-	-
Aldrin	0.05	mg/kg	< 0.05	-	-	-
b-BHC	0.05	mg/kg	< 0.05	-	-	-
d-BHC	0.05	mg/kg	< 0.05	-	-	-
Dieldrin	0.05	mg/kg	< 0.05	-	-	-
Endosulfan I	0.05	mg/kg	< 0.05	-	-	-
Endosulfan II	0.05	mg/kg	< 0.05	-	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	-
Endrin	0.05	mg/kg	< 0.05	-	-	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	-
Endrin ketone	0.05	mg/kg	< 0.05	-	-	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	-	-
Heptachlor	0.05	mg/kg	< 0.05	-	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	-
Methoxychlor	0.2	mg/kg	< 0.2	-	-	-
Toxaphene	1	mg/kg	< 1	-	-	-
Dibutylchlorendate (surr.)	1	%	97	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	108	-	-	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC021 6.0-6.1 Soil S14-Ja06761 Jan 15, 2014	FC021 8.5-8.7 Soil S14-Ja06763 Jan 15, 2014	FC023 6.0-6.1 Soil S14-Ja06764 Jan 15, 2014	FC023 8.5-8.7 Soil S14-Ja06766 Jan 15, 2014
Polychlorinated Biphenyls (PCB)						
Aroclor-1016	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1232	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1242	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1248	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1254	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1260	0.5	mg/kg	< 0.5	-	-	-
Total PCB	0.5	mg/kg	< 0.5	-	-	-
Dibutylchlorendate (surr.)	1	%	97	-	-	-
Conductivity (1:5 aqueous extract at 25°C)	5	uS/cm	210	230	450	250
pH (1:5 Aqueous extract)	0.1	units	7.8	8.0	8.3	8.3
% Moisture	0.1	%	16	17	13	18
Heavy Metals						
Arsenic	2	mg/kg	7.2	9.6	6.7	11
Cadmium	0.4	mg/kg	1.2	1.8	0.5	0.7
Chromium	5	mg/kg	17	69	53	260
Copper	5	mg/kg	150	340	82	84
Lead	5	mg/kg	450	1200	270	260
Mercury	0.05	mg/kg	0.66	0.53	0.33	0.27
Nickel	5	mg/kg	17	31	8.6	14
Zinc	5	mg/kg	650	1200	180	400

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Jan 22, 2014	14 Day
- Method: E004 Petroleum Hydrocarbons (TPH)			
BTEX	Sydney	Jan 22, 2014	14 Day
- Method: E029/E016 BTEX			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jan 22, 2014	14 Day
- Method: LM-LTM-ORG2010			
Polycyclic Aromatic Hydrocarbons	Sydney	Jan 21, 2014	14 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Organochlorine Pesticides	Sydney	Jan 21, 2014	14 Day
- Method: E013 Organochlorine Pesticides (OC)			
Polychlorinated Biphenyls (PCB)	Sydney	Jan 21, 2014	28 Day
- Method: E013 Polychlorinated Biphenyls (PCB)			
Metals M8	Sydney	Jan 20, 2014	28 Day
- Method: E022 Acid Extractable metals in Soils & E026 Mercury			
Volatile Organics	Sydney	Jan 22, 2014	7 Day
- Method: E016 Volatile Organic Compounds (VOC)			
Conductivity (1:5 aqueous extract at 25°C)	Sydney	Jan 21, 2014	7 Day
- Method: E032.2 Electrical Conductivity (EC)			
pH (1:5 Aqueous extract)	Sydney	Jan 21, 2014	7 Day
- Method: E018.2 pH			
% Moisture	Sydney	Jan 20, 2014	28 Day
- Method: E005 Moisture Content			

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Company Name: JBS & G (NSW & WA) Pty Ltd
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Client Job No.: GREEN SQUARE BLOCK 16 AB 43182

Order No.:
Report #: 405817
Phone: 02 8245 0300
Fax:

Received: Jan 16, 2014 3:20 PM
Due: Jan 23, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	Total Recoverable Hydrocarbons	Volatile Organics	JBS&G Suite 2
Laboratory where analysis is conducted													
Melbourne Laboratory - NATA Site # 1254 & 14271													
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794													
External Laboratory													
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**									
FC017 6.0-6.1	Jan 15, 2014		Soil	S14-Ja06753	X	X		X		X	X	X	
FC017 7.0-7.1	Jan 15, 2014		Soil	S14-Ja06754			X						
FC018 6.0-6.1	Jan 15, 2014		Soil	S14-Ja06755			X						
FC018 7.0-7.1	Jan 15, 2014		Soil	S14-Ja06756			X						
FC018 8.5-8.7	Jan 15, 2014		Soil	S14-Ja06757	X	X		X	X	X	X		
FC019 6.0-6.1	Jan 15, 2014		Soil	S14-Ja06758	X	X		X	X	X	X		
FC020 6.0-6.1	Jan 15, 2014		Soil	S14-Ja06759			X						
FC020 7.0-7.1	Jan 15, 2014		Soil	S14-Ja06760	X	X		X	X	X	X		
FC021 6.0-6.1	Jan 15, 2014		Soil	S14-Ja06761	X	X		X					X
FC021 7.0-7.1	Jan 15, 2014		Soil	S14-Ja06762			X						

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Company Name: JBS & G (NSW & WA) Pty Ltd
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Sydney
NSW 2000

Client Job No.: GREEN SQUARE BLOCK 16 AB 43182

Order No.:
Report #: 405817
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Received: Jan 16, 2014 3:20 PM
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Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	Total Recoverable Hydrocarbons	Volatile Organics	JBS&G Suite 2
Laboratory where analysis is conducted													
Melbourne Laboratory - NATA Site # 1254 & 14271													
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794													
External Laboratory													
FC021 8.5-8.7	Jan 15, 2014		Soil	S14-Ja06763	X	X		X	X	X	X	X	
FC023 6.0-6.1	Jan 15, 2014		Soil	S14-Ja06764	X	X		X	X	X	X		
FC023 7.0-7.1	Jan 15, 2014		Soil	S14-Ja06765			X						
FC023 8.5-8.7	Jan 15, 2014		Soil	S14-Ja06766	X	X		X		X	X	X	
QC17	Jan 15, 2014		Soil	S14-Ja06767			X						

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH C6-C10 less BTEX (F1)	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/kg	< 0.05			0.05	Pass	
1.1-Dichloroethene	mg/kg	< 0.05			0.05	Pass	
1.1.1-Trichloroethane	mg/kg	< 0.05			0.05	Pass	
1.1.1.2-Tetrachloroethane	mg/kg	< 0.05			0.05	Pass	
1.1.2-Trichloroethane	mg/kg	< 0.05			0.05	Pass	
1.1.2.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dibromoethane	mg/kg	< 0.05			0.05	Pass	
1.2-Dichlorobenzene	mg/kg	< 0.05			0.05	Pass	
1.2-Dichloroethane	mg/kg	< 0.05			0.05	Pass	
1.2-Dichloropropane	mg/kg	< 0.05			0.05	Pass	
1.2.3-Trichloropropane	mg/kg	< 0.05			0.05	Pass	
1.2.4-Trimethylbenzene	mg/kg	< 0.05			0.05	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.05			0.05	Pass	
1.3-Dichloropropane	mg/kg	< 0.05			0.05	Pass	
1.3.5-Trimethylbenzene	mg/kg	< 0.05			0.05	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.05			0.05	Pass	
2-Butanone (MEK)	mg/kg	< 0.05			0.05	Pass	
4-Chlorotoluene	mg/kg	< 0.05			0.05	Pass	
4-Methyl-2-pentanone (MIBK)	mg/kg	< 0.05			0.05	Pass	
Bromobenzene	mg/kg	< 0.05			0.05	Pass	
Bromochloromethane	mg/kg	< 0.05			0.05	Pass	
Bromodichloromethane	mg/kg	< 0.05			0.05	Pass	
Bromoform	mg/kg	< 0.05			0.05	Pass	
Bromomethane	mg/kg	< 0.05			0.05	Pass	
Carbon disulfide	mg/kg	< 0.05			0.05	Pass	
Carbon Tetrachloride	mg/kg	< 0.05			0.05	Pass	
Chlorobenzene	mg/kg	< 0.05			0.05	Pass	
Chloroethane	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Chloroform	mg/kg	< 0.05			0.05	Pass	
Chloromethane	mg/kg	< 0.05			0.05	Pass	
cis-1.2-Dichloroethene	mg/kg	< 0.05			0.05	Pass	
cis-1.3-Dichloropropene	mg/kg	< 0.05			0.05	Pass	
Dibromochloromethane	mg/kg	< 0.05			0.05	Pass	
Dibromomethane	mg/kg	< 0.5			0.5	Pass	
Dichlorodifluoromethane	mg/kg	< 0.05			0.05	Pass	
Iodomethane	mg/kg	< 0.05			0.05	Pass	
Isopropyl benzene (Cumene)	mg/kg	< 0.05			0.05	Pass	
Methylene Chloride	mg/kg	< 0.05			0.05	Pass	
Styrene	mg/kg	< 0.05			0.05	Pass	
Tetrachloroethene	mg/kg	< 0.05			0.05	Pass	
trans-1.2-Dichloroethene	mg/kg	< 0.05			0.05	Pass	
trans-1.3-Dichloropropene	mg/kg	< 0.05			0.05	Pass	
Trichloroethene	mg/kg	< 0.05			0.05	Pass	
Trichlorofluoromethane	mg/kg	< 0.05			0.05	Pass	
Vinyl chloride	mg/kg	< 0.05			0.05	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-BHC	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-BHC	mg/kg	< 0.05			0.05	Pass	
d-BHC	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-BHC (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.2			0.2	Pass	
Toxaphene	mg/kg	< 1			1	Pass	
Method Blank							
Polychlorinated Biphenyls (PCB)							
Aroclor-1016	mg/kg	< 0.5			0.5	Pass	
Aroclor-1232	mg/kg	< 0.5			0.5	Pass	
Aroclor-1242	mg/kg	< 0.5			0.5	Pass	
Aroclor-1248	mg/kg	< 0.5			0.5	Pass	
Aroclor-1254	mg/kg	< 0.5			0.5	Pass	
Aroclor-1260	mg/kg	< 0.5			0.5	Pass	
Total PCB	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.05			0.05	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	97			70-130	Pass	
TRH C10-C14	%	74			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	98			70-130	Pass	
Toluene	%	102			70-130	Pass	
Ethylbenzene	%	106			70-130	Pass	
m&p-Xylenes	%	106			70-130	Pass	
o-Xylene	%	103			70-130	Pass	
Xylenes - Total	%	93			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	91			70-130	Pass	
TRH C6-C10	%	89			70-130	Pass	
TRH >C10-C16	%	82			70-130	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethane	%	100			75-125	Pass	
1.1-Dichloroethene	%	106			70-130	Pass	
1.1.1-Trichloroethane	%	107			70-130	Pass	
1.1.1.2-Tetrachloroethane	%	93			70-130	Pass	
1.1.2-Trichloroethane	%	87			70-130	Pass	
1.1.2.2-Tetrachloroethane	%	91			70-130	Pass	
1.2-Dibromoethane	%	88			70-130	Pass	
1.2-Dichlorobenzene	%	107			70-130	Pass	
1.2-Dichloroethane	%	89			70-130	Pass	
1.2-Dichloropropane	%	93			70-130	Pass	
1.2.3-Trichloropropane	%	104			70-130	Pass	
1.2.4-Trimethylbenzene	%	119			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
1.3-Dichlorobenzene	%	113			70-130	Pass	
1.3-Dichloropropane	%	90			70-130	Pass	
1.3.5-Trimethylbenzene	%	120			70-130	Pass	
1.4-Dichlorobenzene	%	112			70-130	Pass	
2-Butanone (MEK)	%	81			70-130	Pass	
4-Chlorotoluene	%	120			70-130	Pass	
4-Methyl-2-pentanone (MIBK)	%	79			70-130	Pass	
Bromobenzene	%	116			70-130	Pass	
Bromochloromethane	%	95			70-130	Pass	
Bromodichloromethane	%	89			70-130	Pass	
Bromoform	%	83			70-130	Pass	
Bromomethane	%	95			70-130	Pass	
Carbon disulfide	%	100			70-130	Pass	
Carbon Tetrachloride	%	107			70-130	Pass	
Chlorobenzene	%	99			70-130	Pass	
Chloroethane	%	105			70-130	Pass	
Chloroform	%	101			70-130	Pass	
Chloromethane	%	112			70-130	Pass	
cis-1.2-Dichloroethene	%	100			70-130	Pass	
cis-1.3-Dichloropropene	%	87			70-130	Pass	
Dibromochloromethane	%	86			70-130	Pass	
Dibromomethane	%	93			70-130	Pass	
Dichlorodifluoromethane	%	103			70-130	Pass	
Iodomethane	%	92			75-125	Pass	
Isopropyl benzene (Cumene)	%	108			70-130	Pass	
Methylene Chloride	%	102			70-130	Pass	
Styrene	%	99			70-130	Pass	
Tetrachloroethene	%	104			70-130	Pass	
trans-1.2-Dichloroethene	%	100			70-130	Pass	
trans-1.3-Dichloropropene	%	87			70-130	Pass	
Trichloroethene	%	98			70-130	Pass	
Trichlorofluoromethane	%	104			70-130	Pass	
Vinyl chloride	%	115			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	121			70-130	Pass	
Acenaphthylene	%	120			70-130	Pass	
Anthracene	%	121			70-130	Pass	
Benz(a)anthracene	%	124			70-130	Pass	
Benzo(a)pyrene	%	116			70-130	Pass	
Benzo(b&j)fluoranthene	%	111			70-130	Pass	
Benzo(g.h.i)perylene	%	91			70-130	Pass	
Benzo(k)fluoranthene	%	117			70-130	Pass	
Chrysene	%	122			70-130	Pass	
Dibenz(a.h)anthracene	%	100			70-130	Pass	
Fluoranthene	%	123			70-130	Pass	
Fluorene	%	124			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	100			70-130	Pass	
Naphthalene	%	122			70-130	Pass	
Phenanthrene	%	116			70-130	Pass	
Pyrene	%	119			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	87			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
4.4'-DDD	%	91			70-130	Pass	
4.4'-DDE	%	88			70-130	Pass	
4.4'-DDT	%	89			70-130	Pass	
a-BHC	%	88			70-130	Pass	
Aldrin	%	89			70-130	Pass	
b-BHC	%	94			70-130	Pass	
d-BHC	%	91			70-130	Pass	
Dieldrin	%	89			70-130	Pass	
Endosulfan I	%	89			70-130	Pass	
Endosulfan II	%	90			70-130	Pass	
Endosulfan sulphate	%	90			70-130	Pass	
Endrin	%	88			70-130	Pass	
Endrin aldehyde	%	90			70-130	Pass	
Endrin ketone	%	89			70-130	Pass	
g-BHC (Lindane)	%	89			70-130	Pass	
Heptachlor	%	86			70-130	Pass	
Heptachlor epoxide	%	88			70-130	Pass	
Hexachlorobenzene	%	76			70-130	Pass	
Methoxychlor	%	89			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls (PCB)							
Aroclor-1260	%	101			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	92			70-130	Pass	
Cadmium	%	85			70-130	Pass	
Chromium	%	96			70-130	Pass	
Copper	%	96			70-130	Pass	
Lead	%	92			70-130	Pass	
Mercury	%	79			70-130	Pass	
Nickel	%	97			70-130	Pass	
Zinc	%	96			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S14-Ja05683	NCP	%	92			70-130	Pass	
TRH C10-C14	S14-Ja05683	NCP	%	75			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S14-Ja06185	NCP	%	93			70-130	Pass	
Toluene	S14-Ja06185	NCP	%	96			70-130	Pass	
Ethylbenzene	S14-Ja06185	NCP	%	98			70-130	Pass	
m&p-Xylenes	S14-Ja06185	NCP	%	99			70-130	Pass	
o-Xylene	S14-Ja06185	NCP	%	99			70-130	Pass	
Xylenes - Total	S14-Ja05683	NCP	%	85			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S14-Ja06185	NCP	%	96			70-130	Pass	
TRH C6-C10	S14-Ja05683	NCP	%	86			70-130	Pass	
TRH >C10-C16	S14-Ja05683	NCP	%	82			70-130	Pass	
Spike - % Recovery									
Volatile Organics				Result 1					
1.1-Dichloroethane	S14-Ja07760	NCP	%	96			75-125	Pass	
1.1-Dichloroethene	S14-Ja07760	NCP	%	98			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
1.1.1-Trichloroethane	S14-Ja07760	NCP	%	100			70-130	Pass	
1.1.1.2-Tetrachloroethane	S14-Ja07760	NCP	%	95			70-130	Pass	
1.1.2-Trichloroethane	S14-Ja07760	NCP	%	101			70-130	Pass	
1.1.2.2-Tetrachloroethane	S14-Ja07760	NCP	%	106			70-130	Pass	
1.2-Dibromoethane	S14-Ja07760	NCP	%	102			70-130	Pass	
1.2-Dichlorobenzene	S14-Ja07760	NCP	%	109			70-130	Pass	
1.2-Dichloroethane	S14-Ja07760	NCP	%	100			70-130	Pass	
1.2-Dichloropropane	S14-Ja07760	NCP	%	98			70-130	Pass	
1.2.3-Trichloropropane	S14-Ja07760	NCP	%	116			70-130	Pass	
1.2.4-Trimethylbenzene	S14-Ja07760	NCP	%	112			70-130	Pass	
1.3-Dichlorobenzene	S14-Ja07760	NCP	%	112			70-130	Pass	
1.3-Dichloropropane	S14-Ja07760	NCP	%	104			70-130	Pass	
1.3.5-Trimethylbenzene	S14-Ja07760	NCP	%	114			70-130	Pass	
1.4-Dichlorobenzene	S14-Ja07760	NCP	%	112			70-130	Pass	
2-Butanone (MEK)	S14-Ja07760	NCP	%	99			70-130	Pass	
4-Chlorotoluene	S14-Ja07760	NCP	%	114			70-130	Pass	
4-Methyl-2-pentanone (MIBK)	S14-Ja07760	NCP	%	97			70-130	Pass	
Bromobenzene	S14-Ja07760	NCP	%	114			70-130	Pass	
Bromochloromethane	S14-Ja07760	NCP	%	97			70-130	Pass	
Bromodichloromethane	S14-Ja07760	NCP	%	96			70-130	Pass	
Bromoform	S14-Ja07760	NCP	%	87			70-130	Pass	
Bromomethane	S14-Ja07760	NCP	%	92			70-130	Pass	
Carbon disulfide	S14-Ja07760	NCP	%	84			70-130	Pass	
Carbon Tetrachloride	S14-Ja07760	NCP	%	98			70-130	Pass	
Chlorobenzene	S14-Ja07760	NCP	%	99			70-130	Pass	
Chloroethane	S14-Ja07760	NCP	%	99			70-130	Pass	
Chloroform	S14-Ja07760	NCP	%	101			70-130	Pass	
Chloromethane	S14-Ja07760	NCP	%	86			70-130	Pass	
cis-1.2-Dichloroethene	S14-Ja07760	NCP	%	99			70-130	Pass	
cis-1.3-Dichloropropene	S14-Ja07760	NCP	%	93			70-130	Pass	
Dibromochloromethane	S14-Ja07760	NCP	%	94			70-130	Pass	
Dibromomethane	S14-Ja07760	NCP	%	100			70-130	Pass	
Dichlorodifluoromethane	S14-Ja07760	NCP	%	91			70-130	Pass	
Iodomethane	S14-Ja07760	NCP	%	92			75-125	Pass	
Isopropyl benzene (Cumene)	S14-Ja07760	NCP	%	102			70-130	Pass	
Methylene Chloride	S14-Ja07760	NCP	%	108			70-130	Pass	
Styrene	S14-Ja07760	NCP	%	101			70-130	Pass	
Tetrachloroethene	S14-Ja07760	NCP	%	106			70-130	Pass	
trans-1.2-Dichloroethene	S14-Ja07760	NCP	%	95			70-130	Pass	
trans-1.3-Dichloropropene	S14-Ja07760	NCP	%	93			70-130	Pass	
Trichloroethene	S14-Ja07760	NCP	%	100			70-130	Pass	
Trichlorofluoromethane	S14-Ja07760	NCP	%	97			70-130	Pass	
Vinyl chloride	S14-Ja07760	NCP	%	104			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S14-Ja06753	CP	%	90			70-130	Pass	
Cadmium	S14-Ja06753	CP	%	104			70-130	Pass	
Chromium	S14-Ja06367	NCP	%	91			70-130	Pass	
Copper	S14-Ja06367	NCP	%	104			70-130	Pass	
Mercury	S14-Ja06753	CP	%	80			70-130	Pass	
Nickel	S14-Ja06753	CP	%	108			70-130	Pass	
Zinc	S14-Ja06367	NCP	%	101			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Acenaphthene	S14-Ja08299	NCP	%	105			70-130	Pass	
Acenaphthylene	S14-Ja08299	NCP	%	94			70-130	Pass	
Anthracene	S14-Ja08299	NCP	%	102			70-130	Pass	
Benz(a)anthracene	S14-Ja08299	NCP	%	100			70-130	Pass	
Benzo(a)pyrene	S14-Ja08299	NCP	%	95			70-130	Pass	
Benzo(b&j)fluoranthene	S14-Ja08299	NCP	%	93			70-130	Pass	
Benzo(g.h.i)perylene	S14-Ja08299	NCP	%	71			70-130	Pass	
Benzo(k)fluoranthene	S14-Ja08299	NCP	%	103			70-130	Pass	
Chrysene	S14-Ja08299	NCP	%	104			70-130	Pass	
Dibenz(a.h)anthracene	S14-Ja08299	NCP	%	80			70-130	Pass	
Fluoranthene	S14-Ja08299	NCP	%	102			70-130	Pass	
Fluorene	S14-Ja08299	NCP	%	110			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja08299	NCP	%	80			70-130	Pass	
Naphthalene	S14-Ja08299	NCP	%	108			70-130	Pass	
Phenanthrene	S14-Ja08299	NCP	%	96			70-130	Pass	
Pyrene	S14-Ja08299	NCP	%	99			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S14-Ja05667	NCP	%	98			70-130	Pass	
4.4'-DDD	S14-Ja05667	NCP	%	105			70-130	Pass	
4.4'-DDE	S14-Ja05667	NCP	%	98			70-130	Pass	
4.4'-DDT	S14-Ja05667	NCP	%	95			70-130	Pass	
a-BHC	S14-Ja05667	NCP	%	97			70-130	Pass	
Aldrin	S14-Ja05667	NCP	%	97			70-130	Pass	
b-BHC	S14-Ja05667	NCP	%	103			70-130	Pass	
d-BHC	S14-Ja05667	NCP	%	99			70-130	Pass	
Dieldrin	S14-Ja05667	NCP	%	99			70-130	Pass	
Endosulfan I	S14-Ja05667	NCP	%	100			70-130	Pass	
Endosulfan II	S14-Ja05667	NCP	%	100			70-130	Pass	
Endosulfan sulphate	S14-Ja05667	NCP	%	102			70-130	Pass	
Endrin	S14-Ja05667	NCP	%	97			70-130	Pass	
Endrin aldehyde	S14-Ja05667	NCP	%	102			70-130	Pass	
Endrin ketone	S14-Ja05667	NCP	%	101			70-130	Pass	
g-BHC (Lindane)	S14-Ja05667	NCP	%	96			70-130	Pass	
Heptachlor	S14-Ja05667	NCP	%	95			70-130	Pass	
Heptachlor epoxide	S14-Ja05667	NCP	%	97			70-130	Pass	
Hexachlorobenzene	S14-Ja05667	NCP	%	80			70-130	Pass	
Methoxychlor	S14-Ja05667	NCP	%	98			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls (PCB)				Result 1					
Aroclor-1260	S14-Ja07804	NCP	%	85			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S14-Ja05683	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S14-Ja05683	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S14-Ja05683	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S14-Ja05683	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S14-Ja04746	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S14-Ja04746	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S14-Ja04746	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S14-Ja04746	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	

Duplicate									
BTEX				Result 1	Result 2	RPD			
o-Xylene	S14-Ja04746	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total	S14-Ja05683	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S14-Ja04746	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S14-Ja05683	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S14-Ja05683	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S14-Ja05683	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S14-Ja05683	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S14-Ja05683	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.1-Dichloroethene	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.1.1-Trichloroethane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.1.2-Trichloroethane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	S14-Ja07760	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromoethane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.2-Dichlorobenzene	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.2-Dichloroethane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.2-Dichloropropane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.2.3-Trichloropropane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.2.4-Trimethylbenzene	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.3-Dichlorobenzene	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.3-Dichloropropane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.3.5-Trimethylbenzene	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.4-Dichlorobenzene	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
2-Butanone (MEK)	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4-Chlorotoluene	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Bromobenzene	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Bromochloromethane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Bromodichloromethane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Bromoform	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Bromomethane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Carbon disulfide	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Carbon Tetrachloride	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Chlorobenzene	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Chloroethane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Chloroform	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Chloromethane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
cis-1.2-Dichloroethene	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
cis-1.3-Dichloropropene	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dibromochloromethane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dibromomethane	S14-Ja07760	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorodifluoromethane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Iodomethane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Isopropyl benzene (Cumene)	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methylene Chloride	S14-Ja07760	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Styrene	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Tetrachloroethene	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
trans-1.2-Dichloroethene	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
trans-1.3-Dichloropropene	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	

Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
Trichloroethene	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Trichlorofluoromethane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Vinyl chloride	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S14-Ja06753	CP	mg/kg	3.3	3.5	3.0	30%	Pass	
Cadmium	S14-Ja06753	CP	mg/kg	0.5	0.6	28	30%	Pass	
Chromium	S14-Ja06753	CP	mg/kg	90	81	11	30%	Pass	
Copper	S14-Ja06753	CP	mg/kg	100	150	37	30%	Fail	Q15
Lead	S14-Ja06753	CP	mg/kg	280	330	18	30%	Pass	
Mercury	S14-Ja06753	CP	mg/kg	0.29	0.30	5.0	30%	Pass	
Nickel	S14-Ja06753	CP	mg/kg	7.6	12	44	30%	Fail	Q15
Zinc	S14-Ja06753	CP	mg/kg	280	360	24	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S14-Ja08299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S14-Ja08299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S14-Ja08299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S14-Ja08299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S14-Ja08299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S14-Ja08299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S14-Ja08299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S14-Ja08299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S14-Ja08299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S14-Ja08299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S14-Ja08299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S14-Ja08299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja08299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S14-Ja08299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S14-Ja08299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S14-Ja08299	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Conductivity (1:5 aqueous extract at 25°C)	S14-Ja06757	CP	uS/cm	350	320	8.0	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S14-Ja05667	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S14-Ja05667	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S14-Ja05667	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S14-Ja05667	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	S14-Ja05667	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S14-Ja05667	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	S14-Ja05667	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-BHC	S14-Ja05667	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S14-Ja05667	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S14-Ja05667	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S14-Ja05667	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S14-Ja05667	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S14-Ja05667	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S14-Ja05667	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S14-Ja05667	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	S14-Ja05667	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S14-Ja05667	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	

Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Heptachlor epoxide	S14-Ja05667	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S14-Ja05667	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S14-Ja05667	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Toxaphene	S14-Ja05667	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls (PCB)				Result 1	Result 2	RPD			
Aroclor-1016	S14-Ja05667	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1232	S14-Ja05667	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1242	S14-Ja05667	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1248	S14-Ja05667	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1254	S14-Ja05667	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1260	S14-Ja05667	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q15	The RPD reported passes Eurofins | mgt's Acceptance Criteria as stipulated in SOP 05. Refer to Glossary Page of this report for further details

Authorised By

Jean Heng	Client Services
Bob Symons	Senior Analyst-Inorganic (NSW)
James Norford	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)
Ryan Hamilton	Senior Analyst-Volatile (NSW)

Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

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eurofins | mgt
Unit F3-F6 Building F, Parkview Building
16 Mars Road, Lane Cove West
NSW 2066

405817

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 42182
PROJECT NAME: Eton Square Block 16 AB
SEND REPORT TO: N Cussen SEND INVOICE TO: E Ng
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: Cussen
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: ncussen@jbsg.com.au
QC LEVEL: NEPM (2013)

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	JBS&G SPECIFIC SUITES: JB1	JB1T	JB1A	JB2	JB2A	B10	JB2/JBL	JB3/JBL	JB4	JBL	8 Metals	TRH	PAH	PH	EC	VOCs	NOTES:
FC017 6.0-6.1	Soil	15.1.14		Jar + Ice												X	X		X	X	X	
FC017 7.0-7.1																						
FC018 6.0-6.1																						
FC018 7.0-7.1																						
FC018 8.5-8.7																X	X	X	X	X		
FC019 6.0-6.1																X	X	X	X	X		
FC020 6.0-6.1																						
FC020 7.0-7.1																X	X	X	X	X		
FC021 6.0-6.1									X										X	X		
FC021 7.0-7.1																						
FC021 8.5-8.7																X	X	X	X	X	X	
FC023 6.0-6.1																X	X	X	X	X		
FC023 7.0-7.1																						
FC023 8.5-8.7																X	X		X	X	X	
QC17	✓	✓		✓																		

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Nathan DATE: 16 01 14	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE:	
		OF:	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - eurofins mgt

JB1 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1T - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos
JB2 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
B10 - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2/JBL - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)
JB3/JBL - TRH/BTEX/PAH/OCP/OPP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)/Asbestos
JB4 - TRH/BTEX/VOC
JBL - TCLP(PAH & 6 Metals)

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16 JAN 2014
BY: Sean 3:20

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Phone : +61 3 8564 5000
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Site # 1254 & 14271

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Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: GREEN SQUARE BLOCK 16 A/B 43182

Order No.:
Report #: 405738
Phone: 02 8245 0300
Fax:

Received: Jan 15, 2014 3:45 PM
Due: Jan 22, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	CANCELLED	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	Total Recoverable Hydrocarbons	JBS&G Suite 2
Laboratory where analysis is conducted													
Melbourne Laboratory - NATA Site # 1254 & 14271													
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794													
External Laboratory													
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**									
FC018 0.1-0.2	Jan 13, 2014		Soil	S14-Ja06056	X		X		X	X	X	X	
FC018 0.8-1.0	Jan 13, 2014		Soil	S14-Ja06057				X					
FC018 1.5-1.7	Jan 13, 2014		Soil	S14-Ja06058	X		X		X	X	X	X	
FC018 2.8-3.0	Jan 13, 2014		Soil	S14-Ja06059	X					X	X	X	
FC018 4.1-4.3	Jan 13, 2014		Soil	S14-Ja06060	X		X		X				X
FC021 0.1-0.2	Jan 13, 2014		Soil	S14-Ja06061	X		X		X	X	X	X	
FC021 0.8-1.0	Jan 13, 2014		Soil	S14-Ja06062	X					X	X	X	
FC021 1.8-2.0	Jan 13, 2014		Soil	S14-Ja06063				X					
FC021 2.9-3.1	Jan 13, 2014		Soil	S14-Ja06064	X		X		X				X
FC021 4.3-4.5	Jan 13, 2014		Soil	S14-Ja06065	X		X		X	X	X	X	

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Laboratory where analysis is conducted													
Melbourne Laboratory - NATA Site # 1254 & 14271													
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794													
External Laboratory													
FC024 0.1-0.2	Jan 13, 2014		Soil	S14-Ja06066	X		X		X				X
FC024 0.5-0.7	Jan 13, 2014		Soil	S14-Ja06067	X		X		X	X	X	X	
FC024 1.2-1.4	Jan 13, 2014		Soil	S14-Ja06068	X		X		X	X	X	X	
FC024 2.8-3.0	Jan 13, 2014		Soil	S14-Ja06069				X					
FC024 4.2-4.4	Jan 13, 2014		Soil	S14-Ja06070	X					X	X	X	
FC025 0.1-0.2	Jan 13, 2014		Soil	S14-Ja06071	X		X		X	X	X	X	
FC025 0.9-1.0	Jan 13, 2014		Soil	S14-Ja06072				X					
FC025 1.8-2.0	Jan 13, 2014		Soil	S14-Ja06073	X		X		X			X	X
FC025 2.8-3.0	Jan 13, 2014		Soil	S14-Ja06074				X					
FC025 4.1-4.3	Jan 13, 2014		Soil	S14-Ja06075	X		X		X				X
FC027 0.1-0.2	Jan 13, 2014		Soil	S14-Ja06076	X		X		X	X	X	X	

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Sample Detail					% Moisture	CANCELLED	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	Total Recoverable Hydrocarbons	JBS&G Suite 2
Laboratory where analysis is conducted													
Melbourne Laboratory - NATA Site # 1254 & 14271													
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794													
External Laboratory													
FC027 0.8-1.0	Jan 13, 2014		Soil	S14-Ja06077				X					
FC027 1.8-2.0	Jan 13, 2014		Soil	S14-Ja06078	X		X		X	X	X	X	
FC027 2.9-3.1	Jan 13, 2014		Soil	S14-Ja06079				X					
FC027 4.3-4.5	Jan 13, 2014		Soil	S14-Ja06080	X		X		X				X
FC028 0.1-0.2	Jan 13, 2014		Soil	S14-Ja06081	X		X		X	X	X	X	
FC028 0.8-1.0	Jan 13, 2014		Soil	S14-Ja06082	X		X		X				X
FC028 1.8-2.0	Jan 13, 2014		Soil	S14-Ja06083				X					
FC028 2.8-3.0	Jan 13, 2014		Soil	S14-Ja06084	X		X		X	X	X	X	
FC028 4.1-4.3	Jan 13, 2014		Soil	S14-Ja06085				X					
FC024 6.0-6.1	Jan 14, 2014		Soil	S14-Ja06086	X		X		X	X	X	X	
FC025 5.4-5.6	Jan 14, 2014		Soil	S14-Ja06087		X							

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Received: Jan 15, 2014 3:45 PM
Due: Jan 22, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	CANCELLED	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	Total Recoverable Hydrocarbons	JBS&G Suite 2
Laboratory where analysis is conducted													
Melbourne Laboratory - NATA Site # 1254 & 14271													
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794													
External Laboratory													
FC026 6.0-6.1	Jan 14, 2014		Soil	S14-Ja06088				X					
FC026 7.0-7.1	Jan 13, 2014		Soil	S14-Ja06089	X		X		X				X
FC027 6.0-6.1	Jan 13, 2014		Soil	S14-Ja06090	X		X		X				X
FC028 6.0-6.1	Jan 14, 2014		Soil	S14-Ja06091	X		X		X	X	X	X	
FC028 7.0-7.1	Jan 14, 2014		Soil	S14-Ja06092				X					
QC15	Jan 14, 2014		Soil	S14-Ja06093	X								X
FC025 6.0-6.1	Jan 14, 2014		Soil	S14-Ja06183				X					
FC027 7.0-7.1	Jan 14, 2014		Soil	S14-Ja06184				X					

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Sample Receipt Advice

Company name:	**JBS & G (NSW & WA) Pty Ltd**
Contact name:	Nathan Cussen
Client job number:	GREEN SQUARE BLOCK 16 A/B 43182
COC number:	Not provided
Turn around time:	5 Day
Date/Time received:	Jan 15, 2014 3:45 PM
Eurofins | mgt reference:	**405738**

Sample information

☑ A detailed list of analytes logged into our LIMS, is included in the attached summary table.

☑ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt Sample Receipt : 11 degrees Celsius.

☒ All samples have been received as described on the above COC.

☑ COC has been completed correctly.

☑ Attempt to chill was evident.

☑ Appropriately preserved sample containers have been used.

☑ All samples were received in good condition.

☑ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.

☑ Organic samples had Teflon liners.

☒ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Notes

Sample FC025 5.4-5.6 was not received thus analysis cancelled | Sample ID discrepancy: COC: FC025 0.9-1.0 JAR: FC025 0.8-1.0 sample ID as per COC | Extra samples received not on the COC FC025 6.0-6.1 and FC027 7.0-7.1 placed on HOLD

Contact notes

If you have any questions with respect to these samples please contact:

Jean Heng on Phone : (+61) (2) 9900 8400 or by e.mail: JeanHeng@eurofins.com.au

Results will be delivered electronically via e.mail to Nathan Cussen - ncussen@jbsg.com.au.

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Certificate of Analysis

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Nathan Cussen**

Report **405738-S**
Client Reference GREEN SQUARE BLOCK 16 A/B 43182
Received Date Jan 15, 2014

Client Sample ID **Sample Matrix** **Eurofins | mgt Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**FC018 0.1-0.2** **Soil** **S14-Ja06056** **Jan 13, 2014**	**FC018 1.5-1.7** **Soil** **S14-Ja06058** **Jan 13, 2014**	**FC018 2.8-3.0** **Soil** **S14-Ja06059** **Jan 13, 2014**	**FC018 4.1-4.3** **Soil** **S14-Ja06060** **Jan 13, 2014**
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	110	56	230	190
TRH C29-C36	50	mg/kg	130	69	300	220
TRH C10-36 (Total)	50	mg/kg	240	130	530	410
BTEX						
Benzene	0.1	mg/kg	-	-	-	< 0.1
Toluene	0.1	mg/kg	-	-	-	< 0.1
Ethylbenzene	0.1	mg/kg	-	-	-	< 0.1
m&p-Xylenes	0.2	mg/kg	-	-	-	< 0.2
o-Xylene	0.1	mg/kg	-	-	-	< 0.1
Xylenes - Total	0.3	mg/kg	-	-	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	-	-	93
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	210	100	480	370
TRH >C34-C40	100	mg/kg	120	110	250	190
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	0.8	0.6
Anthracene	0.5	mg/kg	0.9	0.8	1.7	1.6
Benz(a)anthracene	0.5	mg/kg	3.0	1.8	5.2	5.2
Benzo(a)pyrene	0.5	mg/kg	4.3	2.4	7.2	7.2
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	2.9	1.2	5.7	4.3
Benzo(g.h.i)perylene	0.5	mg/kg	3.3	1.7	5.4	4.9
Benzo(k)fluoranthene	0.5	mg/kg	4.3	2.5	7.6	7.6
Chrysene	0.5	mg/kg	3.3	2.0	5.8	5.6
Dibenz(a.h)anthracene	0.5	mg/kg	0.8	< 0.5	1.3	1.3
Fluoranthene	0.5	mg/kg	5.2	3.6	8.9	9.0
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	2.8	1.4	4.5	4.4
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	0.8	< 0.5

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC018 0.1-0.2 Soil S14-Ja06056 Jan 13, 2014	FC018 1.5-1.7 Soil S14-Ja06058 Jan 13, 2014	FC018 2.8-3.0 Soil S14-Ja06059 Jan 13, 2014	FC018 4.1-4.3 Soil S14-Ja06060 Jan 13, 2014
Polycyclic Aromatic Hydrocarbons						
Phenanthrene	0.5	mg/kg	2.3	2.3	4.3	3.7
Pyrene	0.5	mg/kg	5.1	3.4	8.0	8.3
Total PAH	0.5	mg/kg	38	23	67	64
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	6.5	3.1	11	11
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	6.5	3.3	11	11
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	6.5	3.6	11	11
2-Fluorobiphenyl (surr.)	1	%	97	89	89	90
p-Terphenyl-d14 (surr.)	1	%	93	87	87	87
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	-	-	< 0.05
a-BHC	0.05	mg/kg	-	-	-	< 0.05
Aldrin	0.05	mg/kg	-	-	-	< 0.05
b-BHC	0.05	mg/kg	-	-	-	< 0.05
d-BHC	0.05	mg/kg	-	-	-	< 0.05
Dieldrin	0.05	mg/kg	-	-	-	< 0.05
Endosulfan I	0.05	mg/kg	-	-	-	< 0.05
Endosulfan II	0.05	mg/kg	-	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	-	-	< 0.05
Endrin	0.05	mg/kg	-	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	-	-	< 0.05
Endrin ketone	0.05	mg/kg	-	-	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	-	-	< 0.05
Heptachlor	0.05	mg/kg	-	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	-	< 0.05
Methoxychlor	0.2	mg/kg	-	-	-	< 0.2
Toxaphene	1	mg/kg	-	-	-	< 1
Dibutylchlorendate (surr.)	1	%	-	-	-	93
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	94
Polychlorinated Biphenyls (PCB)						
Aroclor-1016	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1232	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1242	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1248	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1254	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1260	0.5	mg/kg	-	-	-	< 0.5
Total PCB	0.5	mg/kg	-	-	-	< 0.5
Dibutylchlorendate (surr.)	1	%	-	-	-	93
Conductivity (1:5 aqueous extract at 25°C)	5	uS/cm	110	91	-	140
pH (1:5 Aqueous extract)	0.1	units	8.1	8.5	-	8.2
% Moisture	0.1	%	4.8	25	9.3	20

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC018 0.1-0.2 Soil S14-Ja06056 Jan 13, 2014	FC018 1.5-1.7 Soil S14-Ja06058 Jan 13, 2014	FC018 2.8-3.0 Soil S14-Ja06059 Jan 13, 2014	FC018 4.1-4.3 Soil S14-Ja06060 Jan 13, 2014
Heavy Metals						
Arsenic	2	mg/kg	2.2	4.1	3.2	5.5
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	0.8
Chromium	5	mg/kg	< 5	5.8	< 5	12
Copper	5	mg/kg	56	76	86	110
Lead	5	mg/kg	130	250	300	340
Mercury	0.05	mg/kg	0.23	0.51	0.38	0.29
Nickel	5	mg/kg	< 5	6.0	< 5	13
Zinc	5	mg/kg	150	250	210	410

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC021 0.1-0.2 Soil S14-Ja06061 Jan 13, 2014	FC021 0.8-1.0 Soil S14-Ja06062 Jan 13, 2014	FC021 2.9-3.1 Soil S14-Ja06064 Jan 13, 2014	FC021 4.3-4.5 Soil S14-Ja06065 Jan 13, 2014
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	170	610	220	140
TRH C29-C36	50	mg/kg	130	650	340	280
TRH C10-36 (Total)	50	mg/kg	300	1300	560	420
BTEX						
Benzene	0.1	mg/kg	-	-	< 0.1	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-
o-Xylene	0.1	mg/kg	-	-	< 0.1	-
Xylenes - Total	0.3	mg/kg	-	-	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	-	-	92	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	270	1200	480	350
TRH >C34-C40	100	mg/kg	130	510	330	310
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	< 0.5	0.6	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	0.6	2.0	1.3	0.7
Anthracene	0.5	mg/kg	1.4	5.9	2.4	1.3
Benz(a)anthracene	0.5	mg/kg	6.0	15	5.5	3.1
Benzo(a)pyrene	0.5	mg/kg	8.2	16	7.5	4.3
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	6.9	11	4.3	3.3
Benzo(g.h.i)perylene	0.5	mg/kg	5.1	10	5.6	3.5
Benzo(k)fluoranthene	0.5	mg/kg	8.6	16	7.4	4.3
Chrysene	0.5	mg/kg	6.5	14	5.8	3.3
Dibenz(a.h)anthracene	0.5	mg/kg	1.5	3.0	1.4	0.8
Fluoranthene	0.5	mg/kg	10.0	26	9.1	5.0

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC021 0.1-0.2 Soil S14-Ja06061 Jan 13, 2014	FC021 0.8-1.0 Soil S14-Ja06062 Jan 13, 2014	FC021 2.9-3.1 Soil S14-Ja06064 Jan 13, 2014	FC021 4.3-4.5 Soil S14-Ja06065 Jan 13, 2014
Polycyclic Aromatic Hydrocarbons						
Fluorene	0.5	mg/kg	< 0.5	1.3	0.6	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	4.7	9.4	4.6	2.7
Naphthalene	0.5	mg/kg	< 0.5	0.7	0.9	< 0.5
Phenanthrene	0.5	mg/kg	3.0	16	4.9	2.6
Pyrene	0.5	mg/kg	9.7	22	8.4	4.6
Total PAH	0.5	mg/kg	72	170	70	40
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	13	24	11	6.5
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	13	24	11	6.5
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	13	24	11	6.5
2-Fluorobiphenyl (surr.)	1	%	89	91	91	91
p-Terphenyl-d14 (surr.)	1	%	87	91	92	90
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	< 0.1	-
4.4'-DDD	0.05	mg/kg	-	-	< 0.05	-
4.4'-DDE	0.05	mg/kg	-	-	< 0.05	-
4.4'-DDT	0.05	mg/kg	-	-	< 0.05	-
a-BHC	0.05	mg/kg	-	-	< 0.05	-
Aldrin	0.05	mg/kg	-	-	< 0.05	-
b-BHC	0.05	mg/kg	-	-	< 0.05	-
d-BHC	0.05	mg/kg	-	-	< 0.05	-
Dieldrin	0.05	mg/kg	-	-	< 0.05	-
Endosulfan I	0.05	mg/kg	-	-	< 0.05	-
Endosulfan II	0.05	mg/kg	-	-	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	-	-	< 0.05	-
Endrin	0.05	mg/kg	-	-	< 0.05	-
Endrin aldehyde	0.05	mg/kg	-	-	< 0.05	-
Endrin ketone	0.05	mg/kg	-	-	< 0.05	-
g-BHC (Lindane)	0.05	mg/kg	-	-	< 0.05	-
Heptachlor	0.05	mg/kg	-	-	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	-	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	-	-	< 0.05	-
Methoxychlor	0.2	mg/kg	-	-	< 0.2	-
Toxaphene	1	mg/kg	-	-	< 1	-
Dibutylchlorendate (surr.)	1	%	-	-	90	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	76	-
Polychlorinated Biphenyls (PCB)						
Aroclor-1016	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1232	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1242	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1248	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1254	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1260	0.5	mg/kg	-	-	< 0.5	-
Total PCB	0.5	mg/kg	-	-	< 0.5	-
Dibutylchlorendate (surr.)	1	%	-	-	90	-
Conductivity (1:5 aqueous extract at 25°C)	5	uS/cm	110	-	110	120
pH (1:5 Aqueous extract)	0.1	units	8.5	-	8.5	8.5
% Moisture	0.1	%	3.8	4.5	26	17

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC021 0.1-0.2 Soil S14-Ja06061 Jan 13, 2014	FC021 0.8-1.0 Soil S14-Ja06062 Jan 13, 2014	FC021 2.9-3.1 Soil S14-Ja06064 Jan 13, 2014	FC021 4.3-4.5 Soil S14-Ja06065 Jan 13, 2014
Heavy Metals						
Arsenic	2	mg/kg	4.1	3.4	7.1	5.5
Cadmium	0.4	mg/kg	< 0.4	< 0.4	1.1	0.5
Chromium	5	mg/kg	< 5	< 5	8.3	6.4
Copper	5	mg/kg	52	73	150	130
Lead	5	mg/kg	200	220	510	340
Mercury	0.05	mg/kg	0.45	0.25	1.1	0.53
Nickel	5	mg/kg	< 5	< 5	14	8.8
Zinc	5	mg/kg	240	160	570	430

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC024 0.1-0.2 Soil S14-Ja06066 Jan 13, 2014	FC024 0.5-0.7 Soil S14-Ja06067 Jan 13, 2014	FC024 1.2-1.4 Soil S14-Ja06068 Jan 13, 2014	FC024 4.2-4.4 Soil S14-Ja06070 Jan 13, 2014
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	67	88	56
TRH C29-C36	50	mg/kg	< 50	150	120	59
TRH C10-36 (Total)	50	mg/kg	< 50	220	210	120
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	-	-
Toluene	0.1	mg/kg	< 0.1	-	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	-
o-Xylene	0.1	mg/kg	< 0.1	-	-	-
Xylenes - Total	0.3	mg/kg	< 0.3	-	-	-
4-Bromofluorobenzene (surr.)	1	%	93	-	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	210	170	< 100
TRH >C34-C40	100	mg/kg	< 100	100	160	100
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	0.6	< 0.5
Anthracene	0.5	mg/kg	0.7	< 0.5	1.1	0.8
Benz(a)anthracene	0.5	mg/kg	1.9	0.8	3.0	1.9
Benzo(a)pyrene	0.5	mg/kg	2.3	1.0	3.4	2.3
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	1.7	0.6	2.6	1.9
Benzo(g.h.i)perylene	0.5	mg/kg	1.4	0.6	2.1	1.5
Benzo(k)fluoranthene	0.5	mg/kg	2.4	1.1	3.4	2.3
Chrysene	0.5	mg/kg	1.9	0.9	3.0	2.0
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	0.6	< 0.5
Fluoranthene	0.5	mg/kg	3.5	1.4	5.3	3.9

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC024 0.1-0.2 Soil S14-Ja06066 Jan 13, 2014	FC024 0.5-0.7 Soil S14-Ja06067 Jan 13, 2014	FC024 1.2-1.4 Soil S14-Ja06068 Jan 13, 2014	FC024 4.2-4.4 Soil S14-Ja06070 Jan 13, 2014
Polycyclic Aromatic Hydrocarbons						
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	1.2	0.5	1.9	1.3
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	1.7	0.7	2.7	0.7
Pyrene	0.5	mg/kg	3.5	1.5	4.9	3.8
Total PAH	0.5	mg/kg	22	9.1	35	22
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	3.0	1.3	5.2	3.1
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	3.3	1.5	5.2	3.3
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	3.5	1.8	5.2	3.6
2-Fluorobiphenyl (surr.)	1	%	91	92	91	90
p-Terphenyl-d14 (surr.)	1	%	90	89	92	90
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	-
4.4'-DDD	0.05	mg/kg	< 0.05	-	-	-
4.4'-DDE	0.05	mg/kg	< 0.05	-	-	-
4.4'-DDT	0.05	mg/kg	< 0.05	-	-	-
a-BHC	0.05	mg/kg	< 0.05	-	-	-
Aldrin	0.05	mg/kg	< 0.05	-	-	-
b-BHC	0.05	mg/kg	< 0.05	-	-	-
d-BHC	0.05	mg/kg	< 0.05	-	-	-
Dieldrin	0.05	mg/kg	< 0.05	-	-	-
Endosulfan I	0.05	mg/kg	< 0.05	-	-	-
Endosulfan II	0.05	mg/kg	< 0.05	-	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	-
Endrin	0.05	mg/kg	< 0.05	-	-	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	-
Endrin ketone	0.05	mg/kg	< 0.05	-	-	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	-	-
Heptachlor	0.05	mg/kg	< 0.05	-	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	-
Methoxychlor	0.2	mg/kg	< 0.2	-	-	-
Toxaphene	1	mg/kg	< 1	-	-	-
Dibutylchlorendate (surr.)	1	%	93	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	65	-	-	-
Polychlorinated Biphenyls (PCB)						
Aroclor-1016	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1232	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1242	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1248	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1254	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1260	0.5	mg/kg	< 0.5	-	-	-
Total PCB	0.5	mg/kg	< 0.5	-	-	-
Dibutylchlorendate (surr.)	1	%	93	-	-	-
Conductivity (1:5 aqueous extract at 25°C)	5	uS/cm	110	150	160	-
pH (1:5 Aqueous extract)	0.1	units	8.8	8.5	8.4	-
% Moisture	0.1	%	3.3	4.0	7.1	7.9

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC024 0.1-0.2 Soil S14-Ja06066 Jan 13, 2014	FC024 0.5-0.7 Soil S14-Ja06067 Jan 13, 2014	FC024 1.2-1.4 Soil S14-Ja06068 Jan 13, 2014	FC024 4.2-4.4 Soil S14-Ja06070 Jan 13, 2014
Heavy Metals						
Arsenic	2	mg/kg	2.8	2.6	4.2	2.9
Cadmium	0.4	mg/kg	< 0.4	0.6	1.0	0.5
Chromium	5	mg/kg	8.7	8.7	11	6.5
Copper	5	mg/kg	74	96	130	51
Lead	5	mg/kg	240	210	380	370
Mercury	0.05	mg/kg	0.70	0.73	0.39	< 0.05
Nickel	5	mg/kg	9.9	12	10	< 5
Zinc	5	mg/kg	190	200	640	310

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC025 0.1-0.2 Soil S14-Ja06071 Jan 13, 2014	FC025 1.8-2.0 Soil S14-Ja06073 Jan 13, 2014	FC025 4.1-4.3 Soil S14-Ja06075 Jan 13, 2014	FC027 0.1-0.2 Soil S14-Ja06076 Jan 13, 2014
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	56	< 50	53	51
TRH C29-C36	50	mg/kg	< 50	53	< 50	< 50
TRH C10-36 (Total)	50	mg/kg	56	53	53	51
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	< 0.1	-
Toluene	0.1	mg/kg	-	< 0.1	< 0.1	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	< 0.1	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	< 0.2	-
o-Xylene	0.1	mg/kg	-	< 0.1	< 0.1	-
Xylenes - Total	0.3	mg/kg	-	< 0.3	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	-	100	79	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	0.6	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	1.0	0.6	< 0.5	0.8
Benz(a)anthracene	0.5	mg/kg	2.1	1.3	1.5	2.0
Benzo(a)pyrene	0.5	mg/kg	2.2	1.6	2.2	2.2
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	1.9	1.2	1.6	1.2
Benzo(g.h.i)perylene	0.5	mg/kg	1.2	0.9	1.3	1.3
Benzo(k)fluoranthene	0.5	mg/kg	2.3	1.5	2.1	2.4
Chrysene	0.5	mg/kg	1.9	1.3	1.6	2.0
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	4.1	2.3	1.9	3.6

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC025 0.1-0.2 Soil S14-Ja06071 Jan 13, 2014	FC025 1.8-2.0 Soil S14-Ja06073 Jan 13, 2014	FC025 4.1-4.3 Soil S14-Ja06075 Jan 13, 2014	FC027 0.1-0.2 Soil S14-Ja06076 Jan 13, 2014
Polycyclic Aromatic Hydrocarbons						
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	1.2	0.9	1.1	1.1
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	2.9	1.3	< 0.5	2.5
Pyrene	0.5	mg/kg	3.7	2.3	2.1	3.6
Total PAH	0.5	mg/kg	25	15	15	23
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	3.0	2.1	2.9	2.9
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	3.3	2.3	3.1	3.2
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	3.5	2.6	3.4	3.4
2-Fluorobiphenyl (surr.)	1	%	93	91	94	91
p-Terphenyl-d14 (surr.)	1	%	93	90	88	91
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	< 0.1	-
4.4'-DDD	0.05	mg/kg	-	< 0.05	< 0.05	-
4.4'-DDE	0.05	mg/kg	-	< 0.05	< 0.05	-
4.4'-DDT	0.05	mg/kg	-	< 0.05	< 0.05	-
a-BHC	0.05	mg/kg	-	< 0.05	< 0.05	-
Aldrin	0.05	mg/kg	-	< 0.05	< 0.05	-
b-BHC	0.05	mg/kg	-	< 0.05	< 0.05	-
d-BHC	0.05	mg/kg	-	< 0.05	< 0.05	-
Dieldrin	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan I	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan II	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin ketone	0.05	mg/kg	-	< 0.05	< 0.05	-
g-BHC (Lindane)	0.05	mg/kg	-	< 0.05	< 0.05	-
Heptachlor	0.05	mg/kg	-	< 0.05	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	< 0.05	-
Methoxychlor	0.2	mg/kg	-	< 0.2	< 0.2	-
Toxaphene	1	mg/kg	-	< 1	< 1	-
Dibutylchlorendate (surr.)	1	%	-	80	86	-
Tetrachloro-m-xylene (surr.)	1	%	-	77	83	-
Polychlorinated Biphenyls (PCB)						
Aroclor-1016	0.5	mg/kg	-	< 0.5	< 0.5	-
Aroclor-1232	0.5	mg/kg	-	< 0.5	< 0.5	-
Aroclor-1242	0.5	mg/kg	-	< 0.5	< 0.5	-
Aroclor-1248	0.5	mg/kg	-	< 0.5	< 0.5	-
Aroclor-1254	0.5	mg/kg	-	< 0.5	< 0.5	-
Aroclor-1260	0.5	mg/kg	-	< 0.5	< 0.5	-
Total PCB	0.5	mg/kg	-	< 0.5	< 0.5	-
Dibutylchlorendate (surr.)	1	%	-	80	86	-
Conductivity (1:5 aqueous extract at 25°C)	5	uS/cm	150	270	100	130
pH (1:5 Aqueous extract)	0.1	units	8.8	9.6	8.9	8.8
% Moisture	0.1	%	13	16	17	9.9

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC025 0.1-0.2 Soil S14-Ja06071 Jan 13, 2014	FC025 1.8-2.0 Soil S14-Ja06073 Jan 13, 2014	FC025 4.1-4.3 Soil S14-Ja06075 Jan 13, 2014	FC027 0.1-0.2 Soil S14-Ja06076 Jan 13, 2014
Heavy Metals						
Arsenic	2	mg/kg	6.8	5.0	2.0	3.8
Cadmium	0.4	mg/kg	0.6	6.0	0.6	3.4
Chromium	5	mg/kg	6.1	17	< 5	9.5
Copper	5	mg/kg	67	220	27	110
Lead	5	mg/kg	160	320	100	240
Mercury	0.05	mg/kg	0.67	0.80	0.37	0.36
Nickel	5	mg/kg	13	18	< 5	13
Zinc	5	mg/kg	160	500	310	320

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC027 1.8-2.0 Soil S14-Ja06078 Jan 13, 2014	FC027 4.3-4.5 Soil S14-Ja06080 Jan 13, 2014	FC028 0.1-0.2 Soil S14-Ja06081 Jan 13, 2014	FC028 0.8-1.0 Soil S14-Ja06082 Jan 13, 2014
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	49	< 20	< 20
TRH C15-C28	50	mg/kg	1000	3600	< 50	58
TRH C29-C36	50	mg/kg	460	2100	< 50	160
TRH C10-36 (Total)	50	mg/kg	1500	5700	< 50	220
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	-	< 0.1
Toluene	0.1	mg/kg	-	< 0.1	-	< 0.1
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	< 0.1
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	< 0.2
o-Xylene	0.1	mg/kg	-	< 0.1	-	< 0.1
Xylenes - Total	0.3	mg/kg	-	< 0.3	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	90	-	100
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	1.4	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	150	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	150	< 50	< 50
TRH >C16-C34	100	mg/kg	1400	5400	< 100	190
TRH >C34-C40	100	mg/kg	290	1200	< 100	160
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	0.6	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	6.4	17	< 0.5	< 0.5
Anthracene	0.5	mg/kg	12	33	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	26	81	< 0.5	0.8
Benzo(a)pyrene	0.5	mg/kg	24	82	< 0.5	0.8
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	16	44	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	11	40	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	23	83	< 0.5	0.9
Chrysene	0.5	mg/kg	22	77	< 0.5	0.7
Dibenz(a.h)anthracene	0.5	mg/kg	3.8	12	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	46	120	< 0.5	1.5

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC027 1.8-2.0 Soil S14-Ja06078 Jan 13, 2014	FC027 4.3-4.5 Soil S14-Ja06080 Jan 13, 2014	FC028 0.1-0.2 Soil S14-Ja06081 Jan 13, 2014	FC028 0.8-1.0 Soil S14-Ja06082 Jan 13, 2014
Polycyclic Aromatic Hydrocarbons						
Fluorene	0.5	mg/kg	2.7	7.1	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	12	38	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	1.8	10	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	29	84	< 0.5	0.8
Pyrene	0.5	mg/kg	40	130	< 0.5	1.4
Total PAH	0.5	mg/kg	280	860	< 0.5	6.9
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	36	120	< 0.5	0.9
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	36	120	0.6	1.2
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	36	120	1.2	1.5
2-Fluorobiphenyl (surr.)	1	%	95	93	89	89
p-Terphenyl-d14 (surr.)	1	%	98	99	87	88
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	< 0.05
a-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
Aldrin	0.05	mg/kg	-	< 0.05	-	< 0.05
b-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
d-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
Dieldrin	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan I	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan II	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin ketone	0.05	mg/kg	-	< 0.05	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	< 0.05	-	< 0.05
Heptachlor	0.05	mg/kg	-	< 0.05	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	< 0.05
Methoxychlor	0.2	mg/kg	-	< 0.2	-	< 0.2
Toxaphene	1	mg/kg	-	< 1	-	< 1
Dibutylchlorendate (surr.)	1	%	-	111	-	116
Tetrachloro-m-xylene (surr.)	1	%	-	119	-	59
Polychlorinated Biphenyls (PCB)						
Aroclor-1016	0.5	mg/kg	-	< 0.5	-	< 0.5
Aroclor-1232	0.5	mg/kg	-	< 0.5	-	< 0.5
Aroclor-1242	0.5	mg/kg	-	< 0.5	-	< 0.5
Aroclor-1248	0.5	mg/kg	-	< 0.5	-	< 0.5
Aroclor-1254	0.5	mg/kg	-	< 0.5	-	< 0.5
Aroclor-1260	0.5	mg/kg	-	< 0.5	-	< 0.5
Total PCB	0.5	mg/kg	-	< 0.5	-	< 0.5
Dibutylchlorendate (surr.)	1	%	-	111	-	116
Conductivity (1:5 aqueous extract at 25°C)	5	uS/cm	230	190	120	260
pH (1:5 Aqueous extract)	0.1	units	8.7	8.7	9.0	8.5
% Moisture	0.1	%	8.7	9.3	7.6	9.1

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC027 1.8-2.0 Soil S14-Ja06078 Jan 13, 2014	FC027 4.3-4.5 Soil S14-Ja06080 Jan 13, 2014	FC028 0.1-0.2 Soil S14-Ja06081 Jan 13, 2014	FC028 0.8-1.0 Soil S14-Ja06082 Jan 13, 2014
Heavy Metals						
Arsenic	2	mg/kg	4.0	7.0	< 2	5.4
Cadmium	0.4	mg/kg	< 0.4	< 0.4	0.9	3.0
Chromium	5	mg/kg	10	5.7	17	11
Copper	5	mg/kg	37	100	69	97
Lead	5	mg/kg	450	530	45	230
Mercury	0.05	mg/kg	5.5	1.5	0.07	2.7
Nickel	5	mg/kg	< 5	6.5	150	26
Zinc	5	mg/kg	180	300	130	410

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC028 2.8-3.0 Soil S14-Ja06084 Jan 13, 2014	FC024 6.0-6.1 Soil S14-Ja06086 Jan 14, 2014	FC026 7.0-7.1 Soil S14-Ja06089 Jan 13, 2014	FC027 6.0-6.1 Soil S14-Ja06090 Jan 13, 2014
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	97	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-36 (Total)	50	mg/kg	< 50	97	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	-	-	< 0.1	< 0.1
Toluene	0.1	mg/kg	-	-	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	-	-	< 0.1	< 0.1
Xylenes - Total	0.3	mg/kg	-	-	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	-	91	87
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	130	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	0.9	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	1.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	3.7	0.8	0.9
Benzo(a)pyrene	0.5	mg/kg	< 0.5	4.2	0.9	1.2
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	3.3	0.6	0.9
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	2.2	< 0.5	0.8
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	4.1	0.8	1.3
Chrysene	0.5	mg/kg	< 0.5	3.3	0.8	0.9
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	0.7	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	6.1	1.4	1.4

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC028 2.8-3.0 Soil S14-Ja06084 Jan 13, 2014	FC024 6.0-6.1 Soil S14-Ja06086 Jan 14, 2014	FC026 7.0-7.1 Soil S14-Ja06089 Jan 13, 2014	FC027 6.0-6.1 Soil S14-Ja06090 Jan 13, 2014
Polycyclic Aromatic Hydrocarbons						
Fluorene	0.5	mg/kg	< 0.5	0.6	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	2.1	< 0.5	0.7
Naphthalene	0.5	mg/kg	< 0.5	0.6	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	3.8	0.8	0.7
Pyrene	0.5	mg/kg	< 0.5	6.0	1.4	1.5
Total PAH	0.5	mg/kg	< 0.5	43	7.5	10
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	< 0.5	6.3	1.1	1.6
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	0.6	6.3	1.4	1.9
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	1.2	6.3	1.7	2.1
2-Fluorobiphenyl (surr.)	1	%	92	91	89	91
p-Terphenyl-d14 (surr.)	1	%	89	93	89	90
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	-	-	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	-	-	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	-	-	< 0.05	< 0.05
a-BHC	0.05	mg/kg	-	-	< 0.05	< 0.05
Aldrin	0.05	mg/kg	-	-	< 0.05	< 0.05
b-BHC	0.05	mg/kg	-	-	< 0.05	< 0.05
d-BHC	0.05	mg/kg	-	-	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	-	-	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	-	-	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	-	-	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	-	< 0.05	< 0.05
Endrin	0.05	mg/kg	-	-	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	-	-	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	-	-	< 0.05	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	-	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	-	-	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	-	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	< 0.05	< 0.05
Methoxychlor	0.2	mg/kg	-	-	< 0.2	< 0.2
Toxaphene	1	mg/kg	-	-	< 1	< 1
Dibutylchlorendate (surr.)	1	%	-	-	104	80
Tetrachloro-m-xylene (surr.)	1	%	-	-	65	66
Polychlorinated Biphenyls (PCB)						
Aroclor-1016	0.5	mg/kg	-	-	< 0.5	< 0.5
Aroclor-1232	0.5	mg/kg	-	-	< 0.5	< 0.5
Aroclor-1242	0.5	mg/kg	-	-	< 0.5	< 0.5
Aroclor-1248	0.5	mg/kg	-	-	< 0.5	< 0.5
Aroclor-1254	0.5	mg/kg	-	-	< 0.5	< 0.5
Aroclor-1260	0.5	mg/kg	-	-	< 0.5	< 0.5
Total PCB	0.5	mg/kg	-	-	< 0.5	< 0.5
Dibutylchlorendate (surr.)	1	%	-	-	104	80
Conductivity (1:5 aqueous extract at 25°C)	5	uS/cm	340	220	280	250
pH (1:5 Aqueous extract)	0.1	units	8.7	8.3	8.3	8.4
% Moisture	0.1	%	14	11	11	13

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC028 2.8-3.0 Soil S14-Ja06084 Jan 13, 2014	FC024 6.0-6.1 Soil S14-Ja06086 Jan 14, 2014	FC026 7.0-7.1 Soil S14-Ja06089 Jan 13, 2014	FC027 6.0-6.1 Soil S14-Ja06090 Jan 13, 2014
Heavy Metals						
Arsenic	2	mg/kg	2.5	4.7	6.1	6.5
Cadmium	0.4	mg/kg	0.4	< 0.4	< 0.4	0.4
Chromium	5	mg/kg	7.0	32	49	87
Copper	5	mg/kg	12	49	31	56
Lead	5	mg/kg	160	160	120	380
Mercury	0.05	mg/kg	0.20	0.52	0.17	0.69
Nickel	5	mg/kg	< 5	< 5	< 5	9.2
Zinc	5	mg/kg	84	240	130	290

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC028 6.0-6.1 Soil S14-Ja06091 Jan 14, 2014	QC15 Soil S14-Ja06093 Jan 14, 2014
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				
TRH C6-C9	20	mg/kg	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	130
TRH C29-C36	50	mg/kg	< 50	100
TRH C10-36 (Total)	50	mg/kg	< 50	230
BTEX				
Benzene	0.1	mg/kg	-	< 0.1
Toluene	0.1	mg/kg	-	< 0.1
Ethylbenzene	0.1	mg/kg	-	< 0.1
m&p-Xylenes	0.2	mg/kg	-	< 0.2
o-Xylene	0.1	mg/kg	-	< 0.1
Xylenes - Total	0.3	mg/kg	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	90
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	220
TRH >C34-C40	100	mg/kg	< 100	< 100
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	0.5
Anthracene	0.5	mg/kg	0.6	1.3
Benz(a)anthracene	0.5	mg/kg	1.1	2.3
Benzo(a)pyrene	0.5	mg/kg	1.2	2.0
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	0.9	1.0
Benzo(g.h.i)perylene	0.5	mg/kg	0.6	1.0
Benzo(k)fluoranthene	0.5	mg/kg	1.3	2.1
Chrysene	0.5	mg/kg	1.0	1.9
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	2.0	4.5

Client Sample ID			FC028 6.0-6.1	QC15
Sample Matrix			Soil	Soil
Eurofins | mgt Sample No.			S14-Ja06091	S14-Ja06093
Date Sampled			Jan 14, 2014	Jan 14, 2014
Test/Reference	LOR	Unit		
Polycyclic Aromatic Hydrocarbons				
Fluorene	0.5	mg/kg	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	0.6	1.0
Naphthalene	0.5	mg/kg	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	1.5	3.4
Pyrene	0.5	mg/kg	2.0	4.3
Total PAH	0.5	mg/kg	13	25
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	1.6	2.7
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	1.8	3.0
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	2.1	3.2
2-Fluorobiphenyl (surr.)	1	%	92	91
p-Terphenyl-d14 (surr.)	1	%	91	94
Organochlorine Pesticides				
Chlordanes - Total	0.1	mg/kg	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	< 0.05
a-BHC	0.05	mg/kg	-	< 0.05
Aldrin	0.05	mg/kg	-	< 0.05
b-BHC	0.05	mg/kg	-	< 0.05
d-BHC	0.05	mg/kg	-	< 0.05
Dieldrin	0.05	mg/kg	-	< 0.05
Endosulfan I	0.05	mg/kg	-	< 0.05
Endosulfan II	0.05	mg/kg	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	< 0.05
Endrin	0.05	mg/kg	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	< 0.05
Endrin ketone	0.05	mg/kg	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	< 0.05
Heptachlor	0.05	mg/kg	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	< 0.05
Methoxychlor	0.2	mg/kg	-	< 0.2
Toxaphene	1	mg/kg	-	< 1
Dibutylchlorendate (surr.)	1	%	-	87
Tetrachloro-m-xylene (surr.)	1	%	-	66
Polychlorinated Biphenyls (PCB)				
Aroclor-1016	0.5	mg/kg	-	< 0.5
Aroclor-1232	0.5	mg/kg	-	< 0.5
Aroclor-1242	0.5	mg/kg	-	< 0.5
Aroclor-1248	0.5	mg/kg	-	< 0.5
Aroclor-1254	0.5	mg/kg	-	< 0.5
Aroclor-1260	0.5	mg/kg	-	< 0.5
Total PCB	0.5	mg/kg	-	< 0.5
Dibutylchlorendate (surr.)	1	%	-	87
Conductivity (1:5 aqueous extract at 25°C)	5	uS/cm	380	-
pH (1:5 Aqueous extract)	0.1	units	8.4	-
% Moisture	0.1	%	13	12

Client Sample ID			FC028 6.0-6.1	QC15
Sample Matrix			**Soil**	**Soil**
Eurofins | mgt Sample No.			**S14-Ja06091**	**S14-Ja06093**
Date Sampled			**Jan 14, 2014**	**Jan 14, 2014**
Test/Reference	LOR	Unit		
Heavy Metals				
Arsenic	2	mg/kg	5.0	5.8
Cadmium	0.4	mg/kg	0.7	< 0.4
Chromium	5	mg/kg	50	96
Copper	5	mg/kg	370	43
Lead	5	mg/kg	290	280
Mercury	0.05	mg/kg	0.26	0.52
Nickel	5	mg/kg	11	6.3
Zinc	5	mg/kg	360	220

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Jan 20, 2014	14 Day
- Method: E004 Petroleum Hydrocarbons (TPH)			
BTEX	Sydney	Jan 20, 2014	14 Day
- Method: E029/E016 BTEX			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jan 20, 2014	14 Day
- Method: LM-LTM-ORG2010			
Polycyclic Aromatic Hydrocarbons	Sydney	Jan 20, 2014	14 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Organochlorine Pesticides	Sydney	Jan 20, 2014	14 Day
- Method: E013 Organochlorine Pesticides (OC)			
Polychlorinated Biphenyls (PCB)	Sydney	Jan 20, 2014	28 Day
- Method: E013 Polychlorinated Biphenyls (PCB)			
Metals M8	Sydney	Jan 17, 2014	28 Day
- Method: E022 Acid Extractable metals in Soils & E026 Mercury			
Conductivity (1:5 aqueous extract at 25°C)	Sydney	Jan 20, 2014	7 Day
- Method: E032.2 Electrical Conductivity (EC)			
pH (1:5 Aqueous extract)	Sydney	Jan 20, 2014	7 Day
- Method: E018.2 pH			
% Moisture	Sydney	Jan 17, 2014	28 Day
- Method: E005 Moisture Content			

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Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

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Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: GREEN SQUARE BLOCK 16 A/B 43182

Order No.:
Report #: 405738
Phone: 02 8245 0300
Fax:

Received: Jan 15, 2014 3:45 PM
Due: Jan 22, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	CANCELLED	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	Total Recoverable Hydrocarbons	JBS&G Suite 2
Laboratory where analysis is conducted													
Melbourne Laboratory - NATA Site # 1254 & 14271													
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794													
External Laboratory													
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**									
FC018 0.1-0.2	Jan 13, 2014		Soil	S14-Ja06056	X		X		X	X	X	X	
FC018 0.8-1.0	Jan 13, 2014		Soil	S14-Ja06057				X					
FC018 1.5-1.7	Jan 13, 2014		Soil	S14-Ja06058	X		X		X	X	X	X	
FC018 2.8-3.0	Jan 13, 2014		Soil	S14-Ja06059	X					X	X	X	
FC018 4.1-4.3	Jan 13, 2014		Soil	S14-Ja06060	X		X		X				X
FC021 0.1-0.2	Jan 13, 2014		Soil	S14-Ja06061	X		X		X	X	X	X	
FC021 0.8-1.0	Jan 13, 2014		Soil	S14-Ja06062	X					X	X	X	
FC021 1.8-2.0	Jan 13, 2014		Soil	S14-Ja06063				X					
FC021 2.9-3.1	Jan 13, 2014		Soil	S14-Ja06064	X		X		X				X
FC021 4.3-4.5	Jan 13, 2014		Soil	S14-Ja06065	X		X		X	X	X	X	

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Laboratory where analysis is conducted													
Melbourne Laboratory - NATA Site # 1254 & 14271													
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794													
External Laboratory													
FC024 0.1-0.2	Jan 13, 2014		Soil	S14-Ja06066	X		X		X				X
FC024 0.5-0.7	Jan 13, 2014		Soil	S14-Ja06067	X		X		X	X	X	X	
FC024 1.2-1.4	Jan 13, 2014		Soil	S14-Ja06068	X		X		X	X	X	X	
FC024 2.8-3.0	Jan 13, 2014		Soil	S14-Ja06069				X					
FC024 4.2-4.4	Jan 13, 2014		Soil	S14-Ja06070	X					X	X	X	
FC025 0.1-0.2	Jan 13, 2014		Soil	S14-Ja06071	X		X		X	X	X	X	
FC025 0.9-1.0	Jan 13, 2014		Soil	S14-Ja06072				X					
FC025 1.8-2.0	Jan 13, 2014		Soil	S14-Ja06073	X		X		X			X	X
FC025 2.8-3.0	Jan 13, 2014		Soil	S14-Ja06074				X					
FC025 4.1-4.3	Jan 13, 2014		Soil	S14-Ja06075	X		X		X				X
FC027 0.1-0.2	Jan 13, 2014		Soil	S14-Ja06076	X		X		X	X	X	X	

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Laboratory where analysis is conducted													
Melbourne Laboratory - NATA Site # 1254 & 14271													
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794													
External Laboratory													
FC027 0.8-1.0	Jan 13, 2014		Soil	S14-Ja06077				X					
FC027 1.8-2.0	Jan 13, 2014		Soil	S14-Ja06078	X		X		X	X	X	X	
FC027 2.9-3.1	Jan 13, 2014		Soil	S14-Ja06079				X					
FC027 4.3-4.5	Jan 13, 2014		Soil	S14-Ja06080	X		X		X				X
FC028 0.1-0.2	Jan 13, 2014		Soil	S14-Ja06081	X		X		X	X	X	X	
FC028 0.8-1.0	Jan 13, 2014		Soil	S14-Ja06082	X		X		X				X
FC028 1.8-2.0	Jan 13, 2014		Soil	S14-Ja06083				X					
FC028 2.8-3.0	Jan 13, 2014		Soil	S14-Ja06084	X		X		X	X	X	X	
FC028 4.1-4.3	Jan 13, 2014		Soil	S14-Ja06085				X					
FC024 6.0-6.1	Jan 14, 2014		Soil	S14-Ja06086	X		X		X	X	X	X	
FC025 5.4-5.6	Jan 14, 2014		Soil	S14-Ja06087		X							

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Laboratory where analysis is conducted													
Melbourne Laboratory - NATA Site # 1254 & 14271													
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794													
External Laboratory													
FC026 6.0-6.1	Jan 14, 2014		Soil	S14-Ja06088				X					
FC026 7.0-7.1	Jan 13, 2014		Soil	S14-Ja06089	X		X		X				X
FC027 6.0-6.1	Jan 13, 2014		Soil	S14-Ja06090	X		X		X				X
FC028 6.0-6.1	Jan 14, 2014		Soil	S14-Ja06091	X		X		X	X	X	X	
FC028 7.0-7.1	Jan 14, 2014		Soil	S14-Ja06092				X					
QC15	Jan 14, 2014		Soil	S14-Ja06093	X								X
FC025 6.0-6.1	Jan 14, 2014		Soil	S14-Ja06183				X					
FC027 7.0-7.1	Jan 14, 2014		Soil	S14-Ja06184				X					

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH C6-C10 less BTEX (F1)	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-BHC	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-BHC	mg/kg	< 0.05			0.05	Pass	
d-BHC	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-BHC (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.2			0.2	Pass	
Toxaphene	mg/kg	< 1			1	Pass	
Method Blank							
Polychlorinated Biphenyls (PCB)							
Aroclor-1016	mg/kg	< 0.5			0.5	Pass	
Aroclor-1232	mg/kg	< 0.5			0.5	Pass	
Aroclor-1242	mg/kg	< 0.5			0.5	Pass	
Aroclor-1248	mg/kg	< 0.5			0.5	Pass	
Aroclor-1254	mg/kg	< 0.5			0.5	Pass	
Aroclor-1260	mg/kg	< 0.5			0.5	Pass	
Total PCB	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.05			0.05	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	86			70-130	Pass	
TRH C10-C14	%	84			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	97			70-130	Pass	
Toluene	%	91			70-130	Pass	
Ethylbenzene	%	93			70-130	Pass	
m&p-Xylenes	%	89			70-130	Pass	
o-Xylene	%	89			70-130	Pass	
Xylenes - Total	%	89			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	79			70-130	Pass	
TRH C6-C10	%	78			70-130	Pass	
TRH >C10-C16	%	90			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	121			70-130	Pass	
Acenaphthylene	%	116			70-130	Pass	
Anthracene	%	119			70-130	Pass	
Benz(a)anthracene	%	117			70-130	Pass	
Benzo(a)pyrene	%	123			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Benzo(b&j)fluoranthene	%	114			70-130	Pass	
Benzo(g.h.i)perylene	%	110			70-130	Pass	
Benzo(k)fluoranthene	%	114			70-130	Pass	
Chrysene	%	120			70-130	Pass	
Dibenz(a.h)anthracene	%	121			70-130	Pass	
Fluoranthene	%	114			70-130	Pass	
Fluorene	%	119			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	121			70-130	Pass	
Naphthalene	%	116			70-130	Pass	
Phenanthrene	%	108			70-130	Pass	
Pyrene	%	110			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	115			70-130	Pass	
4.4'-DDD	%	115			70-130	Pass	
4.4'-DDE	%	113			70-130	Pass	
4.4'-DDT	%	114			70-130	Pass	
a-BHC	%	114			70-130	Pass	
Aldrin	%	116			70-130	Pass	
b-BHC	%	122			70-130	Pass	
d-BHC	%	116			70-130	Pass	
Dieldrin	%	115			70-130	Pass	
Endosulfan I	%	116			70-130	Pass	
Endosulfan II	%	120			70-130	Pass	
Endosulfan sulphate	%	121			70-130	Pass	
Endrin	%	114			70-130	Pass	
Endrin aldehyde	%	118			70-130	Pass	
Endrin ketone	%	119			70-130	Pass	
g-BHC (Lindane)	%	115			70-130	Pass	
Heptachlor	%	112			70-130	Pass	
Heptachlor epoxide	%	115			70-130	Pass	
Hexachlorobenzene	%	96			70-130	Pass	
Methoxychlor	%	117			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls (PCB)							
Aroclor-1260	%	117			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	86			70-130	Pass	
Cadmium	%	79			70-130	Pass	
Chromium	%	84			70-130	Pass	
Copper	%	85			70-130	Pass	
Lead	%	100			70-130	Pass	
Mercury	%	103			70-130	Pass	
Nickel	%	88			70-130	Pass	
Zinc	%	83			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S14-Ja06056	CP	%	90			70-130	Pass	
TRH C10-C14	S14-Ja06056	CP	%	101			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S14-Ja06056	CP	%	98			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Toluene	S14-Ja06056	CP	%	89			70-130	Pass	
Ethylbenzene	S14-Ja06056	CP	%	92			70-130	Pass	
m&p-Xylenes	S14-Ja06056	CP	%	91			70-130	Pass	
o-Xylene	S14-Ja06056	CP	%	89			70-130	Pass	
Xylenes - Total	S14-Ja06056	CP	%	90			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S14-Ja06056	CP	%	86			70-130	Pass	
TRH C6-C10	S14-Ja06056	CP	%	92			70-130	Pass	
TRH >C10-C16	S14-Ja06056	CP	%	117			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S14-Ja06056	CP	%	84			70-130	Pass	
Cadmium	S14-Ja06056	CP	%	86			70-130	Pass	
Chromium	S14-Ja06056	CP	%	87			70-130	Pass	
Lead	S14-Ja06056	CP	%	99			70-130	Pass	
Mercury	S14-Ja06056	CP	%	99			70-130	Pass	
Nickel	S14-Ja06056	CP	%	89			70-130	Pass	
Zinc	S14-Ja06185	NCP	%	103			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S14-Ja06068	CP	%	87			70-130	Pass	
TRH C10-C14	S14-Ja06068	CP	%	106			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S14-Ja06068	CP	%	86			70-130	Pass	
Toluene	S14-Ja06068	CP	%	77			70-130	Pass	
Ethylbenzene	S14-Ja06068	CP	%	82			70-130	Pass	
m&p-Xylenes	S14-Ja06068	CP	%	84			70-130	Pass	
o-Xylene	S14-Ja06068	CP	%	81			70-130	Pass	
Xylenes - Total	S14-Ja06068	CP	%	83			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S14-Ja06068	CP	%	76			70-130	Pass	
TRH C6-C10	S14-Ja06068	CP	%	88			70-130	Pass	
TRH >C10-C16	S14-Ja06068	CP	%	127			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Mercury	S14-Ja06068	CP	%	93			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S14-Ja04150	NCP	%	119			70-130	Pass	
4.4'-DDD	S14-Ja04150	NCP	%	128			70-130	Pass	
4.4'-DDE	S14-Ja04150	NCP	%	125			70-130	Pass	
4.4'-DDT	S14-Ja04150	NCP	%	91			70-130	Pass	
a-BHC	S14-Ja04150	NCP	%	127			70-130	Pass	
Aldrin	S14-Ja04150	NCP	%	119			70-130	Pass	
b-BHC	S14-Ja04150	NCP	%	127			70-130	Pass	
d-BHC	S14-Ja04150	NCP	%	130			70-130	Pass	
Dieldrin	S14-Ja04150	NCP	%	119			70-130	Pass	
Endosulfan I	S14-Ja04150	NCP	%	119			70-130	Pass	
Endosulfan II	S14-Ja04150	NCP	%	113			70-130	Pass	
Endosulfan sulphate	S14-Ja04150	NCP	%	116			70-130	Pass	
Endrin	S14-Ja04150	NCP	%	126			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endrin aldehyde	S14-Ja04150	NCP	%	111			70-130	Pass	
Endrin ketone	S14-Ja04150	NCP	%	113			70-130	Pass	
g-BHC (Lindane)	S14-Ja04150	NCP	%	126			70-130	Pass	
Heptachlor	S14-Ja04150	NCP	%	118			70-130	Pass	
Heptachlor epoxide	S14-Ja04150	NCP	%	119			70-130	Pass	
Hexachlorobenzene	S14-Ja04150	NCP	%	97			70-130	Pass	
Methoxychlor	S14-Ja04150	NCP	%	105			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls (PCB)				Result 1					
Aroclor-1260	S14-Ja08499	NCP	%	89			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S14-Ja06084	CP	%	84			70-130	Pass	
TRH C10-C14	S14-Ja06084	CP	%	73			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S14-Ja06084	CP	%	85			70-130	Pass	
Toluene	S14-Ja06084	CP	%	82			70-130	Pass	
Ethylbenzene	S14-Ja06084	CP	%	81			70-130	Pass	
m&p-Xylenes	S14-Ja06084	CP	%	88			70-130	Pass	
o-Xylene	S14-Ja06084	CP	%	86			70-130	Pass	
Xylenes - Total	S14-Ja06084	CP	%	87			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S14-Ja06084	CP	%	87			70-130	Pass	
TRH C6-C10	S14-Ja06084	CP	%	75			70-130	Pass	
TRH >C10-C16	S14-Ja06084	CP	%	81			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S14-Ja06084	CP	%	117			70-130	Pass	
Acenaphthylene	S14-Ja06084	CP	%	111			70-130	Pass	
Anthracene	S14-Ja06084	CP	%	108			70-130	Pass	
Benz(a)anthracene	S14-Ja06084	CP	%	123			70-130	Pass	
Benzo(a)pyrene	S14-Ja06084	CP	%	121			70-130	Pass	
Benzo(b&j)fluoranthene	S14-Ja06084	CP	%	119			70-130	Pass	
Benzo(g.h.i)perylene	S14-Ja06084	CP	%	101			70-130	Pass	
Benzo(k)fluoranthene	S14-Ja06084	CP	%	114			70-130	Pass	
Chrysene	S14-Ja06084	CP	%	122			70-130	Pass	
Dibenz(a.h)anthracene	S14-Ja06084	CP	%	112			70-130	Pass	
Fluoranthene	S14-Ja06084	CP	%	122			70-130	Pass	
Fluorene	S14-Ja06084	CP	%	122			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja06084	CP	%	112			70-130	Pass	
Naphthalene	S14-Ja06084	CP	%	120			70-130	Pass	
Phenanthrene	S14-Ja06084	CP	%	110			70-130	Pass	
Pyrene	S14-Ja06084	CP	%	121			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S14-Ja06084	CP	%	118			70-130	Pass	
Cadmium	S14-Ja06084	CP	%	92			70-130	Pass	
Chromium	S14-Ja06084	CP	%	116			70-130	Pass	
Copper	S14-Ja06084	CP	%	101			70-130	Pass	
Mercury	S14-Ja06084	CP	%	78			70-130	Pass	
Nickel	S14-Ja06084	CP	%	93			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S14-Ja06056	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S14-Ja06056	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S14-Ja06056	CP	mg/kg	110	90	18	30%	Pass	
TRH C29-C36	S14-Ja06056	CP	mg/kg	130	110	21	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S14-Ja06056	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S14-Ja06056	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S14-Ja06056	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S14-Ja06056	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S14-Ja06056	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total	S14-Ja06056	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S14-Ja06056	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S14-Ja06056	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S14-Ja06056	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S14-Ja06056	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S14-Ja06056	CP	mg/kg	210	170	21	30%	Pass	
TRH >C34-C40	S14-Ja06056	CP	mg/kg	120	110	15	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S14-Ja06056	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S14-Ja06056	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S14-Ja06056	CP	mg/kg	0.9	0.9	1.0	30%	Pass	
Benz(a)anthracene	S14-Ja06056	CP	mg/kg	3.0	2.7	11	30%	Pass	
Benzo(a)pyrene	S14-Ja06056	CP	mg/kg	4.3	4.0	8.0	30%	Pass	
Benzo(b&j)fluoranthene	S14-Ja06056	CP	mg/kg	2.9	2.2	28	30%	Pass	
Benzo(g.h.i)perylene	S14-Ja06056	CP	mg/kg	3.3	2.9	12	30%	Pass	
Benzo(k)fluoranthene	S14-Ja06056	CP	mg/kg	4.3	4.0	7.0	30%	Pass	
Chrysene	S14-Ja06056	CP	mg/kg	3.3	3.0	11	30%	Pass	
Dibenz(a.h)anthracene	S14-Ja06056	CP	mg/kg	0.8	0.8	1.0	30%	Pass	
Fluoranthene	S14-Ja06056	CP	mg/kg	5.2	4.9	6.0	30%	Pass	
Fluorene	S14-Ja06056	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja06056	CP	mg/kg	2.8	2.5	11	30%	Pass	
Naphthalene	S14-Ja06056	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S14-Ja06056	CP	mg/kg	2.3	2.3	2.0	30%	Pass	
Pyrene	S14-Ja06056	CP	mg/kg	5.1	4.6	10	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Cadmium	S14-Ja06056	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S14-Ja06056	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	S14-Ja06056	CP	mg/kg	56	63	12	30%	Pass	
Lead	S14-Ja06056	CP	mg/kg	130	140	9.0	30%	Pass	
Mercury	S14-Ja06056	CP	mg/kg	0.23	0.22	1.0	30%	Pass	
Nickel	S14-Ja06056	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Zinc	S14-Ja06056	CP	mg/kg	150	150	1.0	30%	Pass	

Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S14-Ja03765	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S14-Ja03765	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S14-Ja03765	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S14-Ja03765	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	S14-Ja03765	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S14-Ja03765	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	S14-Ja03765	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-BHC	S14-Ja03765	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S14-Ja03765	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S14-Ja03765	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S14-Ja03765	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S14-Ja03765	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S14-Ja03765	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S14-Ja03765	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S14-Ja03765	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	S14-Ja03765	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S14-Ja03765	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S14-Ja03765	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S14-Ja03765	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S14-Ja03765	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Toxaphene	S14-Ja03765	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls (PCB)				Result 1	Result 2	RPD			
Aroclor-1016	S14-Ja03765	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1232	S14-Ja03765	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1242	S14-Ja03765	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1248	S14-Ja03765	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1254	S14-Ja03765	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1260	S14-Ja03765	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Conductivity (1:5 aqueous extract at 25°C)	S14-Ja06066	CP	uS/cm	110	130	11	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S14-Ja06068	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S14-Ja06068	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S14-Ja06068	CP	mg/kg	88	90	3.0	30%	Pass	
TRH C29-C36	S14-Ja06068	CP	mg/kg	120	140	21	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S14-Ja06068	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S14-Ja06068	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S14-Ja06068	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S14-Ja06068	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S14-Ja06068	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total	S14-Ja06068	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S14-Ja06068	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S14-Ja06068	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S14-Ja06068	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S14-Ja06068	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S14-Ja06068	CP	mg/kg	170	200	18	30%	Pass	
TRH >C34-C40	S14-Ja06068	CP	mg/kg	160	170	9.0	30%	Pass	

Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S14-Ja06068	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S14-Ja06068	CP	mg/kg	0.6	0.6	2.0	30%	Pass	
Anthracene	S14-Ja06068	CP	mg/kg	1.1	1.2	7.0	30%	Pass	
Benz(a)anthracene	S14-Ja06068	CP	mg/kg	3.0	3.0	<1	30%	Pass	
Benzo(a)pyrene	S14-Ja06068	CP	mg/kg	3.4	3.1	11	30%	Pass	
Benzo(b&j)fluoranthene	S14-Ja06068	CP	mg/kg	2.6	1.7	40	30%	Fail	Q15
Benzo(g.h.i)perylene	S14-Ja06068	CP	mg/kg	2.1	1.7	23	30%	Pass	
Benzo(k)fluoranthene	S14-Ja06068	CP	mg/kg	3.4	3.6	5.0	30%	Pass	
Chrysene	S14-Ja06068	CP	mg/kg	3.0	2.9	<1	30%	Pass	
Dibenz(a.h)anthracene	S14-Ja06068	CP	mg/kg	0.6	0.5	17	30%	Pass	
Fluoranthene	S14-Ja06068	CP	mg/kg	5.3	5.3	1.0	30%	Pass	
Fluorene	S14-Ja06068	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja06068	CP	mg/kg	1.9	1.5	25	30%	Pass	
Naphthalene	S14-Ja06068	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S14-Ja06068	CP	mg/kg	2.7	3.0	14	30%	Pass	
Pyrene	S14-Ja06068	CP	mg/kg	4.9	5.0	2.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S14-Ja06068	CP	mg/kg	4.2	5.2	21	30%	Pass	
Cadmium	S14-Ja06068	CP	mg/kg	1.0	1.1	11	30%	Pass	
Copper	S14-Ja06068	CP	mg/kg	130	130	<1	30%	Pass	
Lead	S14-Ja06068	CP	mg/kg	380	390	3.0	30%	Pass	
Mercury	S14-Ja06068	CP	mg/kg	0.39	0.47	21	30%	Pass	
Nickel	S14-Ja06068	CP	mg/kg	10	10	1.0	30%	Pass	
Zinc	S14-Ja06068	CP	mg/kg	640	590	8.0	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Conductivity (1:5 aqueous extract at 25°C)	S14-Ja06082	CP	uS/cm	260	270	4.0	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S14-Ja06084	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S14-Ja06084	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S14-Ja06084	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S14-Ja06084	CP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S14-Ja06084	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S14-Ja06084	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S14-Ja06084	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S14-Ja06084	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S14-Ja06084	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total	S14-Ja06084	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S14-Ja06084	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S14-Ja06084	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S14-Ja06084	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S14-Ja06084	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S14-Ja06084	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S14-Ja06084	CP	mg/kg	< 100	< 100	<1	30%	Pass	

Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S14-Ja06084	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S14-Ja06084	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S14-Ja06084	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S14-Ja06084	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S14-Ja06084	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S14-Ja06084	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S14-Ja06084	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S14-Ja06084	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S14-Ja06084	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S14-Ja06084	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S14-Ja06084	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S14-Ja06084	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja06084	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S14-Ja06084	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S14-Ja06084	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S14-Ja06084	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Copper	S14-Ja06084	CP	mg/kg	12	9.6	25	30%	Pass	
Mercury	S14-Ja06084	CP	mg/kg	0.20	0.14	34	30%	Fail	Q15
Nickel	S14-Ja06084	CP	mg/kg	< 5	< 5	<1	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q15	The RPD reported passes Eurofins | mgt's Acceptance Criteria as stipulated in SOP 05. Refer to Glossary Page of this report for further details

Authorised By

Jean Heng	Client Services
Bob Symons	Senior Analyst-Inorganic (NSW)
James Norford	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)
Ryan Hamilton	Senior Analyst-Volatile (NSW)

Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

Eurofins | mgt shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins | mgt be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

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Unit F3-F6 Building F, Parkview Building
16 Mars Road, Lane Cove West
NSW 2066

Page 1 of 2

CHAIN OF CUSTODY

#405738

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square Block 16 A/B
SEND REPORT TO: N Cussen SEND INVOICE TO: G Ng
DATE NEEDED BY: STD TAT

LABORATORY BATCH NO.:
SAMPLERS: Chris B
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: ncussen@jbsg.com.a
QC LEVEL: NEPM (2013)

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	JB1	JB1T	JB1A	JB2	JB2A	B10	JB2/JBL	JB3/JBL	JB4	JBL	8 Metals	TRH	PAH	PH	EC	NOTES:
FC018 0.1 - 0.2	Soil	13/1/14		Jar + Ice												X	X	X	X	X	
FC018 0.8 - 1.0																					
FC018 1.5 - 1.7																X	X	X	X	X	
FC018 2.8 - 3.0																X	X	X	X	X	
FC019 4.1 - 4.3									X										X	X	S
FC021 0.1 - 0.2																X	X	X	X	X	
FC021 0.8 - 1.0																X	X	X			7
FC021 1.8 - 2.0																					
FC021 2.9 - 3.1									X										X	X	
FC021 4.3 - 4.5																X	X	X	X	X	
FC024 0.1 - 0.2									X										X	X	
FC024 0.5 - 0.7																X	X	X	X	X	
FC024 1.2 - 1.4																X	X	X	X	X	
FC024 2.8 - 3.0																					
FC024 4.2 - 4.4																X	X	X			
FC025 0.1 - 0.2																X	X	X	X	X	
FC025 0.9 - 1.0																					
FC025 1.8 - 2.0									X							X	X	X	X	X	
FC025 2.9 - 3.0																					

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Nathan DATE: 14 01 14	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE:	
NAME: DATE:	CONSIGNMENT NOTE NO.	OF:	COOLER TEMP ..... deg C
OF:	TRANSPORT CO	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
		OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 - Chain of Custody - eurofins mgt

JB1 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1T - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos
JB2 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
B10 - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2/JBL - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)
JB3/JBL - TRH/BTEX/PAH/OCP/OPP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)/Asbestos
JB4 - TRH/BTEX/VOC
JBL - TCLP(PAH & 6 Metals)

RECEIVED
15 JAN 2014
BY: Sean D. S.45

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16 Mars Road, Lane Cove West
NSW 2066

#405738

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square Block 16 A/B
SEND REPORT TO: N Cussen SEND INVOICE TO: C Ng
DATE NEEDED BY: STD TAT

LABORATORY BATCH NO.:
SAMPLERS: Chris B
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: ncussen@jbsg.com.au
QC LEVEL: NEPM (2013)

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	JB1	JB1T	JB1A	JB2	JB2A	B10	JB2/JBL	JB3/JBL	JB4	JBL	8 Metals	TRH	PAH	BTEX	pH	NOTES:
FC025 4.1 - 4.3	Soil	13/1/14		Jar + Ice					X										X	X	20
FC027 0.1 - 0.2																X	X	X	X	X	
FC027 0.8 - 1.0																					
FC027 1.9 - 2.0																X	X	X	X	X	
FC027 2.9 - 3.1																					
FC027 4.3 - 4.5									X										X	X	
FC028 0.1 - 0.2																X	X	X	X	X	
FC028 0.8 - 1.0									X										X	X	
FC028 1.8 - 2.0																					
FC028 2.8 - 3.0																X	X	X	X	X	
FC028 4.1 - 4.3																					
FC024 6.0 - 6.1		14.1.14														X	X	X	X	X	31
FC025 5.4 - 5.6																X	X	X			
FC026 6.0 - 6.1																					
FC026 7.0 - 7.1									X										X	X	
FC027 6.0 - 6.1									X										X	X	
FC028 6.0 - 6.1																X	X	X	X	X	
FC028 7.0 - 7.1																					
QC15									X												

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Nathan DATE: 14-01-14 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C
NAME: DATE: OF:	CONSIGNMENT NOTE NO. TRANSPORT CO	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd: VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - eurofins mgt

JB1 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1T - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos
JB2 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
B10 - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2/JBL - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)
JB3/JBL - TRH/BTEX/PAH/OCP/OPP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)/Asbestos
JB4 - TRH/BTEX/VOC
JBL - TCLP(PAH & 6 Metals)

RECEIVED
15 JAN 2014
BY: Sean D. 3:45

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NATA # 1261 Site # 18217

Brisbane
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Murarrie QLD 4172
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NATA # 1261 Site # 20794

Sample Receipt Advice

Company name: **JBS & G (NSW & WA) Pty Ltd**

Contact name: Nathan Cussen
Client job number: GREEN SQUARE BLOCK A/B 43182
COC number: Not provided
Turn around time: 5 Day
Date/Time received: Jan 13, 2014 5:00 PM
Eurofins | mgt reference: **405495**

Sample information

☑ A detailed list of analytes logged into our LIMS, is included in the attached summary table.

☑ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt Sample Receipt : 7 degrees Celsius.

☒ All samples have been received as described on the above COC.

☑ COC has been completed correctly.

☑ Attempt to chill was evident.

☑ Appropriately preserved sample containers have been used.

☑ All samples were received in good condition.

☑ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.

☑ Organic samples had Teflon liners.

☒ Sample containers for volatile analysis received with zero headspace.

☒ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Notes

Sample RINSATE vials received with headspace | Discrepancy: COC = SB, Vial = TB - labelled as per COC

Contact notes

If you have any questions with respect to these samples please contact:

Jean Heng on Phone : (+61) (2) 9900 8400 or by e.mail: JeanHeng@eurofins.com.au

Results will be delivered electronically via e.mail to Nathan Cussen - ncussen@jbsg.com.au.

Eurofins | mgt Sample Receipt

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ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

Melbourne
3-5 Kingston Town Close
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NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: GREEN SQUARE BLOCK A/B 43182

Order No.:
Report #: 405495
Phone: 02 8245 0300
Fax:

Received: Jan 13, 2014 5:00 PM
Due: Jan 21, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Total Recoverable Hydrocarbons	Volatile Organics	JBS&G Suite 2
Laboratory where analysis is conducted														
Melbourne Laboratory - NATA Site # 1254 & 14271														
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
External Laboratory														
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**										
FC016 0.2-0.3	Jan 10, 2014		Soil	S14-Ja03970	X	X		X						X
FC016 1.0-1.2	Jan 10, 2014		Soil	S14-Ja03971			X							
FC016 1.8-2.0	Jan 10, 2014		Soil	S14-Ja03972	X	X		X	X	X		X		
FC016 2.8-3.0	Jan 10, 2014		Soil	S14-Ja03973			X							
FC016 3.8-4.0	Jan 10, 2014		Soil	S14-Ja03974	X				X	X		X		
QC06	Jan 10, 2014		Soil	S14-Ja03975	X									X
TS	Jan 10, 2014		Water	S14-Ja03976							X			
SB	Jan 10, 2014		Water	S14-Ja03977							X			
RINSATE	Jan 10, 2014		Water	S14-Ja03978					X	X	X	X		
FC017 0.1-0.2	Jan 10, 2014		Soil	S14-Ja03979	X	X		X	X	X		X		

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Laboratory where analysis is conducted														
Melbourne Laboratory - NATA Site # 1254 & 14271														
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
External Laboratory														
FC017 0.5-0.7	Jan 10, 2014		Soil	S14-Ja03980			X							
FC017 1.2-1.4	Jan 10, 2014		Soil	S14-Ja03981	X					X		X	X	
FC017 1.8-2.0	Jan 10, 2014		Soil	S14-Ja03982	X									X
FC017 2.8-3.0	Jan 10, 2014		Soil	S14-Ja03983			X							
FC017 4.8-5.0	Jan 10, 2014		Soil	S14-Ja03984			X							
FC019 0.2-0.3	Jan 10, 2014		Soil	S14-Ja03985	X				X	X		X		
FC019 0.5-0.7	Jan 10, 2014		Soil	S14-Ja03986	X				X	X		X		
FC019 1.0-1.2	Jan 10, 2014		Soil	S14-Ja03987	X				X	X		X		
FC019 1.8-2.0	Jan 10, 2014		Soil	S14-Ja03988			X							
FC019 3.5-3.7	Jan 10, 2014		Soil	S14-Ja03989	X									X
FC019 4.5-4.7	Jan 10, 2014		Soil	S14-Ja03990			X							

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Received: Jan 13, 2014 5:00 PM
Due: Jan 21, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Total Recoverable Hydrocarbons	Volatile Organics	JBS&G Suite 2
Laboratory where analysis is conducted														
Melbourne Laboratory - NATA Site # 1254 & 14271														
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
External Laboratory														
FC020 0.2-0.3	Jan 10, 2014		Soil	S14-Ja03991	X	X		X	X	X		X		
FC020 0.5-0.7	Jan 10, 2014		Soil	S14-Ja03992			X							
FC020 1.0-1.2	Jan 10, 2014		Soil	S14-Ja03993	X				X	X		X		
FC020 1.8-2.0	Jan 10, 2014		Soil	S14-Ja03994			X							
FC020 3.5-3.7	Jan 10, 2014		Soil	S14-Ja03995			X							
FC020 4.8-5.0	Jan 10, 2014		Soil	S14-Ja03996			X							
FC022 0.1-0.2	Jan 10, 2014		Soil	S14-Ja03997			X							
FC022 0.4-0.6	Jan 10, 2014		Soil	S14-Ja03998	X									X
FC022 1.8-2.0	Jan 10, 2014		Soil	S14-Ja03999			X							
FC022 3.5-3.7	Jan 10, 2014		Soil	S14-Ja04000	X	X		X	X	X		X		
FC022 4.8-5.0	Jan 10, 2014		Soil	S14-Ja04001			X							

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Address: Level 1, 50 Margaret St
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NSW 2000

Client Job No.: GREEN SQUARE BLOCK A/B 43182

Order No.:
Report #: 405495
Phone: 02 8245 0300
Fax:

Received: Jan 13, 2014 5:00 PM
Due: Jan 21, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Total Recoverable Hydrocarbons	Volatile Organics	JBS&G Suite 2
Laboratory where analysis is conducted														
Melbourne Laboratory - NATA Site # 1254 & 14271														
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
External Laboratory														
FC023 0.2-0.3	Jan 10, 2014		Soil	S14-Ja04002	X	X		X	X	X		X		
FC023 1.0-1.2	Jan 10, 2014		Soil	S14-Ja04003			X							
FC023 2.2-2.4	Jan 10, 2014		Soil	S14-Ja04004			X							
FC023 3.2-3.4	Jan 10, 2014		Soil	S14-Ja04005			X							
FC023 4.5-4.7	Jan 10, 2014		Soil	S14-Ja04006	X									X
FC026 0.2-0.3	Jan 10, 2014		Soil	S14-Ja04007	X				X	X		X		
FC026 0.6-0.8	Jan 10, 2014		Soil	S14-Ja04008			X							
FC026 1.8-2.0	Jan 10, 2014		Soil	S14-Ja04009	X				X	X		X		
FC026 3.5-3.7	Jan 10, 2014		Soil	S14-Ja04010			X							
FC026 4.5-4.7	Jan 10, 2014		Soil	S14-Ja04011			X							

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Certificate of Analysis

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Nathan Cussen**

Report **405495-W**
Client Reference GREEN SQUARE BLOCK A/B 43182
Received Date Jan 13, 2014

Client Sample ID **Sample Matrix** **Eurofins | mgt Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**TS** **Water** **S14-Ja03976** **Jan 10, 2014**	**SB** **Water** **S14-Ja03977** **Jan 10, 2014**	**RINSATE** **Water** **S14-Ja03978** **Jan 10, 2014**
Total Recoverable Hydrocarbons - 1999 NEPM Fractions					
TRH C6-C9	0.02	mg/L	-	-	< 0.02
TRH C10-C14	0.05	mg/L	-	-	< 0.05
TRH C15-C28	0.1	mg/L	-	-	< 0.1
TRH C29-C36	0.1	mg/L	-	-	< 0.1
TRH C10-36 (Total)	0.1	mg/L	-	-	< 0.1
BTEX					
Benzene	0.001	mg/L	0.010	< 0.001	< 0.001
Toluene	0.001	mg/L	0.009	< 0.001	< 0.001
Ethylbenzene	0.001	mg/L	0.008	< 0.001	< 0.001
m&p-Xylenes	0.002	mg/L	0.020	< 0.002	< 0.002
o-Xylene	0.001	mg/L	0.009	< 0.001	< 0.001
Xylenes - Total	0.003	mg/L	0.030	< 0.003	< 0.003
4-Bromofluorobenzene (surr.)	1	%	97	75	75
Total Recoverable Hydrocarbons - 2013 NEPM Fractions					
Naphthalene[N02]	0.02	mg/L	-	-	< 0.02
TRH C6-C10	0.02	mg/L	-	-	< 0.02
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	-	-	< 0.02
TRH >C10-C16	0.05	mg/L	-	-	< 0.05
TRH >C10-C16 less Naphthalene (F2)[N01]	0.05	mg/L	-	-	< 0.05
TRH >C16-C34	0.1	mg/L	-	-	< 0.1
TRH >C34-C40	0.1	mg/L	-	-	< 0.1
Polycyclic Aromatic Hydrocarbons					
Acenaphthene	0.001	mg/L	-	-	< 0.001
Acenaphthylene	0.001	mg/L	-	-	< 0.001
Anthracene	0.001	mg/L	-	-	< 0.001
Benz(a)anthracene	0.001	mg/L	-	-	< 0.001
Benzo(a)pyrene	0.001	mg/L	-	-	< 0.001
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	-	-	< 0.001
Benzo(g.h.i)perylene	0.001	mg/L	-	-	< 0.001
Benzo(k)fluoranthene	0.001	mg/L	-	-	< 0.001
Chrysene	0.001	mg/L	-	-	< 0.001
Dibenz(a.h)anthracene	0.001	mg/L	-	-	< 0.001
Fluoranthene	0.001	mg/L	-	-	< 0.001
Fluorene	0.001	mg/L	-	-	< 0.001
Indeno(1.2.3-cd)pyrene	0.001	mg/L	-	-	< 0.001
Naphthalene	0.001	mg/L	-	-	< 0.001

Client Sample ID			TS	SB	RINSATE
Sample Matrix			**Water**	**Water**	**Water**
Eurofins | mgt Sample No.			**S14-Ja03976**	**S14-Ja03977**	**S14-Ja03978**
Date Sampled			**Jan 10, 2014**	**Jan 10, 2014**	**Jan 10, 2014**
Test/Reference	LOR	Unit			
Polycyclic Aromatic Hydrocarbons					
Phenanthrene	0.001	mg/L	-	-	< 0.001
Pyrene	0.001	mg/L	-	-	< 0.001
Total PAH	0.001	mg/L	-	-	< 0.001
2-Fluorobiphenyl (surr.)	1	%	-	-	113
p-Terphenyl-d14 (surr.)	1	%	-	-	125
Heavy Metals					
Arsenic	0.005	mg/L	-	-	< 0.005
Cadmium	0.0005	mg/L	-	-	< 0.0005
Chromium	0.005	mg/L	-	-	< 0.005
Copper	0.005	mg/L	-	-	< 0.005
Lead	0.005	mg/L	-	-	< 0.005
Mercury	0.0001	mg/L	-	-	< 0.0001
Nickel	0.005	mg/L	-	-	< 0.005
Zinc	0.005	mg/L	-	-	< 0.005

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Jan 14, 2014	7 Day
- Method: E004 Petroleum Hydrocarbons (TPH)			
BTEX	Sydney	Jan 14, 2014	14 Day
- Method: E029/E016 BTEX			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jan 14, 2014	7 Day
- Method: LM-LTM-ORG2010			
Polycyclic Aromatic Hydrocarbons	Sydney	Jan 14, 2014	7 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Metals M8	Sydney	Jan 14, 2014	28 Day
- Method: E022/E030 Unfiltered Metals in Water & E026 Mercury			

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Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: GREEN SQUARE BLOCK A/B 43182

Order No.:
Report #: 405495
Phone: 02 8245 0300
Fax:

Received: Jan 13, 2014 5:00 PM
Due: Jan 21, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Total Recoverable Hydrocarbons	Volatile Organics	JBS&G Suite 2
Laboratory where analysis is conducted														
Melbourne Laboratory - NATA Site # 1254 & 14271														
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
External Laboratory														
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**										
FC016 0.2-0.3	Jan 10, 2014		Soil	S14-Ja03970	X	X		X						X
FC016 1.0-1.2	Jan 10, 2014		Soil	S14-Ja03971			X							
FC016 1.8-2.0	Jan 10, 2014		Soil	S14-Ja03972	X	X		X	X	X		X		
FC016 2.8-3.0	Jan 10, 2014		Soil	S14-Ja03973			X							
FC016 3.8-4.0	Jan 10, 2014		Soil	S14-Ja03974	X				X	X		X		
QC06	Jan 10, 2014		Soil	S14-Ja03975	X									X
TS	Jan 10, 2014		Water	S14-Ja03976							X			
SB	Jan 10, 2014		Water	S14-Ja03977							X			
RINSATE	Jan 10, 2014		Water	S14-Ja03978					X	X	X	X		
FC017 0.1-0.2	Jan 10, 2014		Soil	S14-Ja03979	X	X		X	X	X		X		

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Laboratory where analysis is conducted														
Melbourne Laboratory - NATA Site # 1254 & 14271														
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
External Laboratory														
FC017 0.5-0.7	Jan 10, 2014		Soil	S14-Ja03980			X							
FC017 1.2-1.4	Jan 10, 2014		Soil	S14-Ja03981	X					X		X	X	
FC017 1.8-2.0	Jan 10, 2014		Soil	S14-Ja03982	X									X
FC017 2.8-3.0	Jan 10, 2014		Soil	S14-Ja03983			X							
FC017 4.8-5.0	Jan 10, 2014		Soil	S14-Ja03984			X							
FC019 0.2-0.3	Jan 10, 2014		Soil	S14-Ja03985	X				X	X		X		
FC019 0.5-0.7	Jan 10, 2014		Soil	S14-Ja03986	X				X	X		X		
FC019 1.0-1.2	Jan 10, 2014		Soil	S14-Ja03987	X				X	X		X		
FC019 1.8-2.0	Jan 10, 2014		Soil	S14-Ja03988			X							
FC019 3.5-3.7	Jan 10, 2014		Soil	S14-Ja03989	X									X
FC019 4.5-4.7	Jan 10, 2014		Soil	S14-Ja03990			X							

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Laboratory where analysis is conducted														
Melbourne Laboratory - NATA Site # 1254 & 14271														
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
External Laboratory														
FC020 0.2-0.3	Jan 10, 2014		Soil	S14-Ja03991	X	X		X	X	X		X		
FC020 0.5-0.7	Jan 10, 2014		Soil	S14-Ja03992			X							
FC020 1.0-1.2	Jan 10, 2014		Soil	S14-Ja03993	X				X	X		X		
FC020 1.8-2.0	Jan 10, 2014		Soil	S14-Ja03994			X							
FC020 3.5-3.7	Jan 10, 2014		Soil	S14-Ja03995			X							
FC020 4.8-5.0	Jan 10, 2014		Soil	S14-Ja03996			X							
FC022 0.1-0.2	Jan 10, 2014		Soil	S14-Ja03997			X							
FC022 0.4-0.6	Jan 10, 2014		Soil	S14-Ja03998	X									X
FC022 1.8-2.0	Jan 10, 2014		Soil	S14-Ja03999			X							
FC022 3.5-3.7	Jan 10, 2014		Soil	S14-Ja04000	X	X		X	X	X		X		
FC022 4.8-5.0	Jan 10, 2014		Soil	S14-Ja04001			X							

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Laboratory where analysis is conducted														
Melbourne Laboratory - NATA Site # 1254 & 14271														
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
External Laboratory														
FC023 0.2-0.3	Jan 10, 2014		Soil	S14-Ja04002	X	X		X	X	X		X		
FC023 1.0-1.2	Jan 10, 2014		Soil	S14-Ja04003			X							
FC023 2.2-2.4	Jan 10, 2014		Soil	S14-Ja04004			X							
FC023 3.2-3.4	Jan 10, 2014		Soil	S14-Ja04005			X							
FC023 4.5-4.7	Jan 10, 2014		Soil	S14-Ja04006	X									X
FC026 0.2-0.3	Jan 10, 2014		Soil	S14-Ja04007	X				X	X		X		
FC026 0.6-0.8	Jan 10, 2014		Soil	S14-Ja04008			X							
FC026 1.8-2.0	Jan 10, 2014		Soil	S14-Ja04009	X				X	X		X		
FC026 3.5-3.7	Jan 10, 2014		Soil	S14-Ja04010			X							
FC026 4.5-4.7	Jan 10, 2014		Soil	S14-Ja04011			X							

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/L	< 0.02			0.02	Pass	
TRH C10-C14	mg/L	< 0.05			0.05	Pass	
TRH C15-C28	mg/L	< 0.1			0.1	Pass	
TRH C29-C36	mg/L	< 0.1			0.1	Pass	
Method Blank							
BTEX							
Benzene	mg/L	< 0.001			0.001	Pass	
Toluene	mg/L	< 0.001			0.001	Pass	
Ethylbenzene	mg/L	< 0.001			0.001	Pass	
m&p-Xylenes	mg/L	< 0.002			0.002	Pass	
o-Xylene	mg/L	< 0.001			0.001	Pass	
Xylenes - Total	mg/L	< 0.003			0.003	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/L	< 0.02			0.02	Pass	
TRH C6-C10	mg/L	< 0.02			0.02	Pass	
TRH C6-C10 less BTEX (F1)	mg/L	< 0.02			0.02	Pass	
TRH >C10-C16	mg/L	< 0.05			0.05	Pass	
TRH >C16-C34	mg/L	< 0.1			0.1	Pass	
TRH >C34-C40	mg/L	< 0.1			0.1	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/L	< 0.001			0.001	Pass	
Acenaphthylene	mg/L	< 0.001			0.001	Pass	
Anthracene	mg/L	< 0.001			0.001	Pass	
Benz(a)anthracene	mg/L	< 0.001			0.001	Pass	
Benzo(a)pyrene	mg/L	< 0.001			0.001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.001			0.001	Pass	
Benzo(g.h.i)perylene	mg/L	< 0.001			0.001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.001			0.001	Pass	
Chrysene	mg/L	< 0.001			0.001	Pass	
Dibenz(a.h)anthracene	mg/L	< 0.001			0.001	Pass	
Fluoranthene	mg/L	< 0.001			0.001	Pass	
Fluorene	mg/L	< 0.001			0.001	Pass	
Indeno(1.2.3-cd)pyrene	mg/L	< 0.001			0.001	Pass	
Naphthalene	mg/L	< 0.001			0.001	Pass	
Phenanthrene	mg/L	< 0.001			0.001	Pass	
Pyrene	mg/L	< 0.001			0.001	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.005			0.005	Pass	
Cadmium	mg/L	< 0.0005			0.0005	Pass	
Chromium	mg/L	< 0.005			0.005	Pass	
Copper	mg/L	< 0.005			0.005	Pass	
Lead	mg/L	< 0.005			0.005	Pass	
Mercury	mg/L	< 0.0001			0.0001	Pass	
Nickel	mg/L	< 0.005			0.005	Pass	
Zinc	mg/L	< 0.005			0.005	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
TRH C6-C9	%	83			70-130	Pass	
TRH C10-C14	%	75			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	109			70-130	Pass	
Toluene	%	105			70-130	Pass	
Ethylbenzene	%	104			70-130	Pass	
m&p-Xylenes	%	102			70-130	Pass	
o-Xylene	%	104			70-130	Pass	
Xylenes - Total	%	103			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	119			70-130	Pass	
TRH C6-C10	%	89			70-130	Pass	
TRH >C10-C16	%	81			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	84			70-130	Pass	
Acenaphthylene	%	88			70-130	Pass	
Anthracene	%	80			70-130	Pass	
Benz(a)anthracene	%	77			70-130	Pass	
Benzo(a)pyrene	%	82			70-130	Pass	
Benzo(b&j)fluoranthene	%	78			70-130	Pass	
Benzo(g.h.i)perylene	%	75			70-130	Pass	
Benzo(k)fluoranthene	%	83			70-130	Pass	
Chrysene	%	83			70-130	Pass	
Dibenz(a.h)anthracene	%	79			70-130	Pass	
Fluoranthene	%	80			70-130	Pass	
Fluorene	%	85			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	79			70-130	Pass	
Naphthalene	%	88			70-130	Pass	
Phenanthrene	%	80			70-130	Pass	
Pyrene	%	80			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	75			70-130	Pass	
Cadmium	%	75			70-130	Pass	
Chromium	%	73			70-130	Pass	
Copper	%	72			70-130	Pass	
Lead	%	74			70-130	Pass	
Mercury	%	82			70-130	Pass	
Nickel	%	72			70-130	Pass	
Zinc	%	78			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
BTEX				Result 1					
Benzene	S14-Ja03166	NCP	%	108			70-130	Pass	
Toluene	S14-Ja03166	NCP	%	100			70-130	Pass	
Ethylbenzene	S14-Ja03166	NCP	%	98			70-130	Pass	
m&p-Xylenes	S14-Ja03166	NCP	%	100			70-130	Pass	
o-Xylene	S14-Ja03166	NCP	%	100			70-130	Pass	
Xylenes - Total	S14-Ja03166	NCP	%	100			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
TRH C6-C9	S14-Ja03166	NCP	%	93			70-130	Pass	
TRH C10-C14	S14-Ja04372	NCP	%	73			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S14-Ja03166	NCP	%	81			70-130	Pass	
TRH C6-C10	S14-Ja03166	NCP	%	91			70-130	Pass	
TRH >C10-C16	S14-Ja04372	NCP	%	76			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S14-Ja07042	NCP	%	90			70-130	Pass	
Acenaphthylene	S14-Ja07042	NCP	%	88			70-130	Pass	
Anthracene	S14-Ja07042	NCP	%	84			70-130	Pass	
Benz(a)anthracene	S14-Ja07042	NCP	%	80			70-130	Pass	
Benzo(a)pyrene	S14-Ja07042	NCP	%	89			70-130	Pass	
Benzo(b&j)fluoranthene	S14-Ja07042	NCP	%	82			70-130	Pass	
Benzo(g.h.i)perylene	S14-Ja07042	NCP	%	86			70-130	Pass	
Benzo(k)fluoranthene	S14-Ja07042	NCP	%	92			70-130	Pass	
Chrysene	S14-Ja07042	NCP	%	91			70-130	Pass	
Dibenz(a.h)anthracene	S14-Ja07042	NCP	%	83			70-130	Pass	
Fluoranthene	S14-Ja07042	NCP	%	85			70-130	Pass	
Fluorene	S14-Ja07042	NCP	%	92			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja07042	NCP	%	81			70-130	Pass	
Naphthalene	S14-Ja07042	NCP	%	99			70-130	Pass	
Phenanthrene	S14-Ja07042	NCP	%	83			70-130	Pass	
Pyrene	S14-Ja07042	NCP	%	85			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S14-Ja03960	NCP	%	87			70-130	Pass	
Cadmium	S14-Ja03960	NCP	%	90			70-130	Pass	
Chromium	S14-Ja03960	NCP	%	86			70-130	Pass	
Copper	S14-Ja03960	NCP	%	83			70-130	Pass	
Lead	S14-Ja03960	NCP	%	86			70-130	Pass	
Mercury	S14-Ja03960	NCP	%	90			70-130	Pass	
Nickel	S14-Ja03960	NCP	%	84			70-130	Pass	
Zinc	S14-Ja03960	NCP	%	89			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S14-Ja03165	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Toluene	S14-Ja03165	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Ethylbenzene	S14-Ja03165	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
m&p-Xylenes	S14-Ja03165	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
o-Xylene	S14-Ja03165	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Xylenes - Total	S14-Ja03165	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S14-Ja03165	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH C10-C14	S14-Ja03848	NCP	mg/L	38	35	10	30%	Pass	
TRH C15-C28	S14-Ja03848	NCP	mg/L	120	100	12	30%	Pass	
TRH C29-C36	S14-Ja03848	NCP	mg/L	53	43	22	30%	Pass	

Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S14-Ja03165	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH C6-C10	S14-Ja03165	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S14-Ja03165	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH >C10-C16	S14-Ja03848	NCP	mg/L	58	52	12	30%	Pass	
TRH >C16-C34	S14-Ja03848	NCP	mg/L	140	120	15	30%	Pass	
TRH >C34-C40	S14-Ja03848	NCP	mg/L	21	22	7.0	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S14-Ja07041	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Acenaphthylene	S14-Ja07041	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Anthracene	S14-Ja07041	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benz(a)anthracene	S14-Ja07041	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(a)pyrene	S14-Ja07041	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(b&j)fluoranthene	S14-Ja07041	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(g.h.i)perylene	S14-Ja07041	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(k)fluoranthene	S14-Ja07041	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chrysene	S14-Ja07041	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibenz(a.h)anthracene	S14-Ja07041	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluoranthene	S14-Ja07041	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluorene	S14-Ja07041	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja07041	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Naphthalene	S14-Ja07041	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Phenanthrene	S14-Ja07041	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Pyrene	S14-Ja07041	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S14-Ja03978	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Cadmium	S14-Ja03978	CP	mg/L	< 0.0005	< 0.0005	<1	30%	Pass	
Chromium	S14-Ja03978	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Copper	S14-Ja03978	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Lead	S14-Ja03978	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Mercury	S14-Ja03978	CP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel	S14-Ja03978	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Zinc	S14-Ja03978	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	No
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs

Authorised By

Jean Heng	Client Services
James Norford	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)
Ryan Hamilton	Senior Analyst-Volatile (NSW)

Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

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Certificate of Analysis

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

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The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Nathan Cussen**

Report **405495-S**
Client Reference GREEN SQUARE BLOCK A/B 43182
Received Date Jan 13, 2014

Client Sample ID **Sample Matrix** **Eurofins | mgt Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**FC016 0.2-0.3** **Soil** **S14-Ja03970** **Jan 10, 2014**	**FC016 1.8-2.0** **Soil** **S14-Ja03972** **Jan 10, 2014**	**FC016 3.8-4.0** **Soil** **S14-Ja03974** **Jan 10, 2014**	**QC06** **Soil** **S14-Ja03975** **Jan 10, 2014**
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	84	< 50	< 50
TRH C29-C36	50	mg/kg	56	100	< 50	84
TRH C10-36 (Total)	50	mg/kg	56	180	< 50	84
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	-	< 0.1
Toluene	0.1	mg/kg	< 0.1	-	-	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	0.8
o-Xylene	0.1	mg/kg	< 0.1	-	-	0.6
Xylenes - Total	0.3	mg/kg	< 0.3	-	-	1.4
4-Bromofluorobenzene (surr.)	1	%	98	-	-	99
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	170	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	0.6	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	0.6	3.0	0.9	0.6
Benzo(a)pyrene	0.5	mg/kg	0.7	3.4	1.2	0.8
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	0.6	2.1	0.6	0.7
Benzo(g.h.i)perylene	0.5	mg/kg	0.6	2.1	0.8	0.6
Benzo(k)fluoranthene	0.5	mg/kg	0.7	3.2	1.1	< 0.5
Chrysene	0.5	mg/kg	0.6	2.9	1.0	0.7
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	0.7	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	0.9	4.5	1.7	1.0
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	0.6	2.0	0.7	0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC016 0.2-0.3 Soil S14-Ja03970 Jan 10, 2014	FC016 1.8-2.0 Soil S14-Ja03972 Jan 10, 2014	FC016 3.8-4.0 Soil S14-Ja03974 Jan 10, 2014	QC06 Soil S14-Ja03975 Jan 10, 2014
Polycyclic Aromatic Hydrocarbons						
Phenanthrene	0.5	mg/kg	< 0.5	1.1	0.6	< 0.5
Pyrene	0.5	mg/kg	1.0	4.5	1.7	1.1
Total PAH	0.5	mg/kg	6.3	30	10	6.0
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	1.0	5.1	1.5	1.0
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	1.2	5.1	1.8	1.3
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	1.5	5.1	2.0	1.6
2-Fluorobiphenyl (surr.)	1	%	93	84	89	90
p-Terphenyl-d14 (surr.)	1	%	95	89	94	94
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	-	-	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	-	-	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	-	-	< 0.05
a-BHC	0.05	mg/kg	< 0.05	-	-	< 0.05
Aldrin	0.05	mg/kg	< 0.05	-	-	< 0.05
b-BHC	0.05	mg/kg	< 0.05	-	-	< 0.05
d-BHC	0.05	mg/kg	< 0.05	-	-	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	-	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	-	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	< 0.05
Methoxychlor	0.2	mg/kg	< 0.2	-	-	< 0.2
Toxaphene	1	mg/kg	< 1	-	-	< 1
Dibutylchlorendate (surr.)	1	%	116	-	-	91
Tetrachloro-m-xylene (surr.)	1	%	75	-	-	86
Polychlorinated Biphenyls (PCB)						
Aroclor-1016	0.5	mg/kg	< 0.5	-	-	< 0.5
Aroclor-1232	0.5	mg/kg	< 0.5	-	-	< 0.5
Aroclor-1242	0.5	mg/kg	< 0.5	-	-	< 0.5
Aroclor-1248	0.5	mg/kg	< 0.5	-	-	< 0.5
Aroclor-1254	0.5	mg/kg	< 0.5	-	-	< 0.5
Aroclor-1260	0.5	mg/kg	< 0.5	-	-	< 0.5
Total PCB	0.5	mg/kg	< 0.5	-	-	< 0.5
Dibutylchlorendate (surr.)	1	%	116	-	-	91
Conductivity (1:5 aqueous extract at 25°C)	5	uS/cm	160	200	-	-
pH (1:5 Aqueous extract)	0.1	units	8.0	7.9	-	-
% Moisture	0.1	%	9.6	16	17	12

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC016 0.2-0.3 Soil S14-Ja03970 Jan 10, 2014	FC016 1.8-2.0 Soil S14-Ja03972 Jan 10, 2014	FC016 3.8-4.0 Soil S14-Ja03974 Jan 10, 2014	QC06 Soil S14-Ja03975 Jan 10, 2014
Heavy Metals						
Arsenic	2	mg/kg	5.3	9.0	5.4	10
Cadmium	0.4	mg/kg	3.4	1.0	0.7	2.6
Chromium	5	mg/kg	23	15	10	22
Copper	5	mg/kg	160	160	140	140
Lead	5	mg/kg	410	420	300	1400
Mercury	0.05	mg/kg	0.84	0.47	0.34	0.87
Nickel	5	mg/kg	49	17	14	43
Zinc	5	mg/kg	500	450	310	570

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC017 0.1-0.2 Soil S14-Ja03979 Jan 10, 2014	FC017 1.2-1.4 Soil S14-Ja03981 Jan 10, 2014	FC017 1.8-2.0 Soil S14-Ja03982 Jan 10, 2014	FC019 0.2-0.3 Soil S14-Ja03985 Jan 10, 2014
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	71	< 50	180	61
TRH C29-C36	50	mg/kg	100	< 50	220	100
TRH C10-36 (Total)	50	mg/kg	170	< 50	400	160
BTEX						
Benzene	0.1	mg/kg	-	-	< 0.1	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-
o-Xylene	0.1	mg/kg	-	-	< 0.1	-
Xylenes - Total	0.3	mg/kg	-	-	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	-	-	97	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	150	< 100	360	140
TRH >C34-C40	100	mg/kg	< 100	< 100	160	< 100
Volatile Organics						
1.1-Dichloroethane	0.05	mg/kg	-	< 0.05	-	-
1.1-Dichloroethene	0.05	mg/kg	-	< 0.05	-	-
1.1.1-Trichloroethane	0.05	mg/kg	-	< 0.05	-	-
1.1.1.2-Tetrachloroethane	0.05	mg/kg	-	< 0.05	-	-
1.1.2-Trichloroethane	0.05	mg/kg	-	< 0.05	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dibromoethane	0.05	mg/kg	-	< 0.05	-	-
1.2-Dichlorobenzene	0.05	mg/kg	-	< 0.05	-	-
1.2-Dichloroethane	0.05	mg/kg	-	< 0.05	-	-
1.2-Dichloropropane	0.05	mg/kg	-	< 0.05	-	-
1.2.3-Trichloropropane	0.05	mg/kg	-	< 0.05	-	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC017 0.1-0.2 Soil S14-Ja03979 Jan 10, 2014	FC017 1.2-1.4 Soil S14-Ja03981 Jan 10, 2014	FC017 1.8-2.0 Soil S14-Ja03982 Jan 10, 2014	FC019 0.2-0.3 Soil S14-Ja03985 Jan 10, 2014
Volatile Organics						
1.2.4-Trimethylbenzene	0.05	mg/kg	-	< 0.05	-	-
1.3-Dichlorobenzene	0.05	mg/kg	-	< 0.05	-	-
1.3-Dichloropropane	0.05	mg/kg	-	< 0.05	-	-
1.3.5-Trimethylbenzene	0.05	mg/kg	-	< 0.05	-	-
1.4-Dichlorobenzene	0.05	mg/kg	-	< 0.05	-	-
2-Butanone (MEK)	0.05	mg/kg	-	< 0.05	-	-
4-Chlorotoluene	0.05	mg/kg	-	< 0.05	-	-
4-Methyl-2-pentanone (MIBK)	0.05	mg/kg	-	< 0.05	-	-
Benzene	0.1	mg/kg	-	< 0.1	-	-
Bromobenzene	0.05	mg/kg	-	< 0.05	-	-
Bromochloromethane	0.05	mg/kg	-	< 0.05	-	-
Bromodichloromethane	0.05	mg/kg	-	< 0.05	-	-
Bromoform	0.05	mg/kg	-	< 0.05	-	-
Bromomethane	0.05	mg/kg	-	< 0.05	-	-
Carbon disulfide	0.05	mg/kg	-	< 0.05	-	-
Carbon Tetrachloride	0.05	mg/kg	-	< 0.05	-	-
Chlorobenzene	0.05	mg/kg	-	< 0.05	-	-
Chloroethane	0.05	mg/kg	-	< 0.05	-	-
Chloroform	0.05	mg/kg	-	< 0.05	-	-
Chloromethane	0.05	mg/kg	-	< 0.05	-	-
cis-1.2-Dichloroethene	0.05	mg/kg	-	< 0.05	-	-
cis-1.3-Dichloropropene	0.05	mg/kg	-	< 0.05	-	-
Dibromochloromethane	0.05	mg/kg	-	< 0.05	-	-
Dibromomethane	0.5	mg/kg	-	< 0.5	-	-
Dichlorodifluoromethane	0.05	mg/kg	-	< 0.05	-	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	-
Iodomethane	0.05	mg/kg	-	< 0.05	-	-
Isopropyl benzene (Cumene)	0.05	mg/kg	-	< 0.05	-	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	-
Methylene Chloride	0.05	mg/kg	-	< 0.05	-	-
o-Xylene	0.1	mg/kg	-	< 0.1	-	-
Styrene	0.05	mg/kg	-	< 0.05	-	-
Tetrachloroethene	0.05	mg/kg	-	< 0.05	-	-
Toluene	0.1	mg/kg	-	< 0.1	-	-
trans-1.2-Dichloroethene	0.05	mg/kg	-	< 0.05	-	-
trans-1.3-Dichloropropene	0.05	mg/kg	-	< 0.05	-	-
Trichloroethene	0.05	mg/kg	-	< 0.05	-	-
Trichlorofluoromethane	0.05	mg/kg	-	< 0.05	-	-
Vinyl chloride	0.05	mg/kg	-	< 0.05	-	-
Xylenes - Total	0.3	mg/kg	-	< 0.3	-	-
Fluorobenzene (surr.)	1	%	-	94	-	-
4-Bromofluorobenzene (surr.)	1	%	-	99	-	-
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Anthracene	0.5	mg/kg	0.7	-	1.6	< 0.5
Benz(a)anthracene	0.5	mg/kg	2.0	-	4.1	1.0
Benzo(a)pyrene	0.5	mg/kg	2.3	-	4.4	1.2
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	2.4	-	4.4	1.2

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC017 0.1-0.2 Soil S14-Ja03979 Jan 10, 2014	FC017 1.2-1.4 Soil S14-Ja03981 Jan 10, 2014	FC017 1.8-2.0 Soil S14-Ja03982 Jan 10, 2014	FC019 0.2-0.3 Soil S14-Ja03985 Jan 10, 2014
Polycyclic Aromatic Hydrocarbons						
Benzo(g.h.i)perylene	0.5	mg/kg	1.5	-	2.8	0.9
Benzo(k)fluoranthene	0.5	mg/kg	1.4	-	2.3	0.7
Chrysene	0.5	mg/kg	2.0	-	4.0	1.0
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	0.7	< 0.5
Fluoranthene	0.5	mg/kg	3.6	-	7.6	1.7
Fluorene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	1.3	-	2.5	0.7
Naphthalene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	2.0	-	5.0	1.0
Pyrene	0.5	mg/kg	3.5	-	7.2	1.7
Total PAH	0.5	mg/kg	23	-	47	11
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	3.1	-	6.5	1.6
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	3.3	-	6.5	1.8
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	3.6	-	6.5	2.1
2-Fluorobiphenyl (surr.)	1	%	90	-	89	88
p-Terphenyl-d14 (surr.)	1	%	95	-	97	93
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	< 0.1	-
4.4'-DDD	0.05	mg/kg	-	-	< 0.05	-
4.4'-DDE	0.05	mg/kg	-	-	< 0.05	-
4.4'-DDT	0.05	mg/kg	-	-	< 0.05	-
a-BHC	0.05	mg/kg	-	-	< 0.05	-
Aldrin	0.05	mg/kg	-	-	< 0.05	-
b-BHC	0.05	mg/kg	-	-	< 0.05	-
d-BHC	0.05	mg/kg	-	-	< 0.05	-
Dieldrin	0.05	mg/kg	-	-	< 0.05	-
Endosulfan I	0.05	mg/kg	-	-	< 0.05	-
Endosulfan II	0.05	mg/kg	-	-	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	-	-	< 0.05	-
Endrin	0.05	mg/kg	-	-	< 0.05	-
Endrin aldehyde	0.05	mg/kg	-	-	< 0.05	-
Endrin ketone	0.05	mg/kg	-	-	< 0.05	-
g-BHC (Lindane)	0.05	mg/kg	-	-	< 0.05	-
Heptachlor	0.05	mg/kg	-	-	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	-	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	-	-	< 0.05	-
Methoxychlor	0.2	mg/kg	-	-	< 0.2	-
Toxaphene	1	mg/kg	-	-	< 1	-
Dibutylchlorendate (surr.)	1	%	-	-	101	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	72	-
Polychlorinated Biphenyls (PCB)						
Aroclor-1016	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1232	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1242	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1248	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1254	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1260	0.5	mg/kg	-	-	< 0.5	-
Total PCB	0.5	mg/kg	-	-	< 0.5	-
Dibutylchlorendate (surr.)	1	%	-	-	101	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC017 0.1-0.2 Soil S14-Ja03979 Jan 10, 2014	FC017 1.2-1.4 Soil S14-Ja03981 Jan 10, 2014	FC017 1.8-2.0 Soil S14-Ja03982 Jan 10, 2014	FC019 0.2-0.3 Soil S14-Ja03985 Jan 10, 2014
Conductivity (1:5 aqueous extract at 25°C)	5	uS/cm	100	-	-	-
pH (1:5 Aqueous extract)	0.1	units	8.5	-	-	-
% Moisture	0.1	%	3.1	5.2	10	7.3
Heavy Metals						
Arsenic	2	mg/kg	5.3	7.6	9.0	10
Cadmium	0.4	mg/kg	0.9	< 0.4	0.5	2.0
Chromium	5	mg/kg	13	17	18	24
Copper	5	mg/kg	140	18	51	180
Lead	5	mg/kg	310	29	180	440
Mercury	0.05	mg/kg	0.46	0.24	0.31	0.56
Nickel	5	mg/kg	11	< 5	< 5	32
Zinc	5	mg/kg	300	20	71	690

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC019 0.5-0.7 Soil S14-Ja03986 Jan 10, 2014	FC019 1.0-1.2 Soil S14-Ja03987 Jan 10, 2014	FC019 3.5-3.7 Soil S14-Ja03989 Jan 10, 2014	FC020 0.2-0.3 Soil S14-Ja03991 Jan 10, 2014
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	380	96	270	56
TRH C29-C36	50	mg/kg	280	130	320	88
TRH C10-36 (Total)	50	mg/kg	660	230	590	140
BTEX						
Benzene	0.1	mg/kg	-	-	< 0.1	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-
o-Xylene	0.1	mg/kg	-	-	< 0.1	-
Xylenes - Total	0.3	mg/kg	-	-	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	-	-	89	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	620	190	530	120
TRH >C34-C40	100	mg/kg	170	100	230	< 100
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	1.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	4.5	0.6	0.8	< 0.5
Benz(a)anthracene	0.5	mg/kg	8.9	2.0	2.6	1.3
Benzo(a)pyrene	0.5	mg/kg	8.2	2.5	3.2	1.7
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	6.7	2.4	1.4	1.0
Benzo(g.h.i)perylene	0.5	mg/kg	4.0	1.6	2.1	1.3

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC019 0.5-0.7 Soil S14-Ja03986 Jan 10, 2014	FC019 1.0-1.2 Soil S14-Ja03987 Jan 10, 2014	FC019 3.5-3.7 Soil S14-Ja03989 Jan 10, 2014	FC020 0.2-0.3 Soil S14-Ja03991 Jan 10, 2014
Polycyclic Aromatic Hydrocarbons						
Benzo(k)fluoranthene	0.5	mg/kg	4.6	1.4	2.9	1.7
Chrysene	0.5	mg/kg	7.6	2.0	2.6	1.3
Dibenz(a.h)anthracene	0.5	mg/kg	1.1	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	15	3.6	4.6	2.0
Fluorene	0.5	mg/kg	1.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	3.7	1.5	1.9	1.1
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	13	1.6	2.1	0.7
Pyrene	0.5	mg/kg	15	3.4	4.8	2.0
Total PAH	0.5	mg/kg	95	23	29	14
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	12	3.3	4.1	2.3
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	12	3.5	4.3	2.5
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	12	3.8	4.6	2.8
2-Fluorobiphenyl (surr.)	1	%	88	89	89	93
p-Terphenyl-d14 (surr.)	1	%	99	94	96	98
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	< 0.1	-
4.4'-DDD	0.05	mg/kg	-	-	< 0.05	-
4.4'-DDE	0.05	mg/kg	-	-	< 0.05	-
4.4'-DDT	0.05	mg/kg	-	-	< 0.05	-
a-BHC	0.05	mg/kg	-	-	< 0.05	-
Aldrin	0.05	mg/kg	-	-	< 0.05	-
b-BHC	0.05	mg/kg	-	-	< 0.05	-
d-BHC	0.05	mg/kg	-	-	< 0.05	-
Dieldrin	0.05	mg/kg	-	-	< 0.05	-
Endosulfan I	0.05	mg/kg	-	-	< 0.05	-
Endosulfan II	0.05	mg/kg	-	-	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	-	-	< 0.05	-
Endrin	0.05	mg/kg	-	-	< 0.05	-
Endrin aldehyde	0.05	mg/kg	-	-	< 0.05	-
Endrin ketone	0.05	mg/kg	-	-	< 0.05	-
g-BHC (Lindane)	0.05	mg/kg	-	-	< 0.05	-
Heptachlor	0.05	mg/kg	-	-	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	-	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	-	-	< 0.05	-
Methoxychlor	0.2	mg/kg	-	-	< 0.2	-
Toxaphene	1	mg/kg	-	-	< 1	-
Dibutylchlorendate (surr.)	1	%	-	-	90	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	81	-
Polychlorinated Biphenyls (PCB)						
Aroclor-1016	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1232	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1242	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1248	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1254	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1260	0.5	mg/kg	-	-	< 0.5	-
Total PCB	0.5	mg/kg	-	-	< 0.5	-
Dibutylchlorendate (surr.)	1	%	-	-	90	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC019 0.5-0.7 Soil S14-Ja03986 Jan 10, 2014	FC019 1.0-1.2 Soil S14-Ja03987 Jan 10, 2014	FC019 3.5-3.7 Soil S14-Ja03989 Jan 10, 2014	FC020 0.2-0.3 Soil S14-Ja03991 Jan 10, 2014
Conductivity (1:5 aqueous extract at 25°C)	5	uS/cm	-	-	-	150
pH (1:5 Aqueous extract)	0.1	units	-	-	-	8.5
% Moisture	0.1	%	13	13	13	5.7
Heavy Metals						
Arsenic	2	mg/kg	5.9	9.4	11	9.7
Cadmium	0.4	mg/kg	7.4	2.1	1.3	1.2
Chromium	5	mg/kg	24	21	19	16
Copper	5	mg/kg	170	220	220	150
Lead	5	mg/kg	400	470	550	560
Mercury	0.05	mg/kg	0.74	1.2	0.76	1.3
Nickel	5	mg/kg	21	21	20	16
Zinc	5	mg/kg	680	540	490	490

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC020 1.0-1.2 Soil S14-Ja03993 Jan 10, 2014	FC022 0.4-0.6 Soil S14-Ja03998 Jan 10, 2014	FC022 3.5-3.7 Soil S14-Ja04000 Jan 10, 2014	FC023 0.2-0.3 Soil S14-Ja04002 Jan 10, 2014
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	130	94	75	55
TRH C29-C36	50	mg/kg	140	140	130	86
TRH C10-36 (Total)	50	mg/kg	270	230	210	140
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	-	-
Toluene	0.1	mg/kg	-	< 0.1	-	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	-
o-Xylene	0.1	mg/kg	-	< 0.1	-	-
Xylenes - Total	0.3	mg/kg	-	< 0.3	-	-
4-Bromofluorobenzene (surr.)	1	%	-	92	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	240	200	170	120
TRH >C34-C40	100	mg/kg	< 100	110	110	< 100
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	0.8	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	1.4	0.6	0.6	< 0.5
Benz(a)anthracene	0.5	mg/kg	3.6	1.6	1.4	1.5
Benzo(a)pyrene	0.5	mg/kg	3.9	2.1	1.8	1.8
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	2.4	1.0	1.0	0.9
Benzo(g.h.i)perylene	0.5	mg/kg	2.4	1.5	1.2	1.3

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC020 1.0-1.2 Soil S14-Ja03993 Jan 10, 2014	FC022 0.4-0.6 Soil S14-Ja03998 Jan 10, 2014	FC022 3.5-3.7 Soil S14-Ja04000 Jan 10, 2014	FC023 0.2-0.3 Soil S14-Ja04002 Jan 10, 2014
Polycyclic Aromatic Hydrocarbons						
Benzo(k)fluoranthene	0.5	mg/kg	3.7	2.2	1.9	1.8
Chrysene	0.5	mg/kg	3.5	1.6	1.5	1.4
Dibenz(a.h)anthracene	0.5	mg/kg	0.7	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	6.6	2.6	2.5	2.4
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	2.0	1.3	1.0	1.1
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	3.8	1.4	1.3	1.1
Pyrene	0.5	mg/kg	6.3	2.7	2.6	2.4
Total PAH	0.5	mg/kg	41	19	17	16
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	5.8	2.7	2.4	2.4
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	5.8	2.9	2.6	2.6
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	5.8	3.2	2.9	2.9
2-Fluorobiphenyl (surr.)	1	%	88	90	89	89
p-Terphenyl-d14 (surr.)	1	%	94	93	93	94
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	-
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	-
a-BHC	0.05	mg/kg	-	< 0.05	-	-
Aldrin	0.05	mg/kg	-	< 0.05	-	-
b-BHC	0.05	mg/kg	-	< 0.05	-	-
d-BHC	0.05	mg/kg	-	< 0.05	-	-
Dieldrin	0.05	mg/kg	-	< 0.05	-	-
Endosulfan I	0.05	mg/kg	-	< 0.05	-	-
Endosulfan II	0.05	mg/kg	-	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	-
Endrin	0.05	mg/kg	-	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	-
Endrin ketone	0.05	mg/kg	-	< 0.05	-	-
g-BHC (Lindane)	0.05	mg/kg	-	< 0.05	-	-
Heptachlor	0.05	mg/kg	-	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	-
Methoxychlor	0.2	mg/kg	-	< 0.2	-	-
Toxaphene	1	mg/kg	-	< 1	-	-
Dibutylchlorendate (surr.)	1	%	-	99	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	74	-	-
Polychlorinated Biphenyls (PCB)						
Aroclor-1016	0.5	mg/kg	-	< 0.5	-	-
Aroclor-1232	0.5	mg/kg	-	< 0.5	-	-
Aroclor-1242	0.5	mg/kg	-	< 0.5	-	-
Aroclor-1248	0.5	mg/kg	-	< 0.5	-	-
Aroclor-1254	0.5	mg/kg	-	< 0.5	-	-
Aroclor-1260	0.5	mg/kg	-	< 0.5	-	-
Total PCB	0.5	mg/kg	-	< 0.5	-	-
Dibutylchlorendate (surr.)	1	%	-	99	-	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC020 1.0-1.2 Soil S14-Ja03993 Jan 10, 2014	FC022 0.4-0.6 Soil S14-Ja03998 Jan 10, 2014	FC022 3.5-3.7 Soil S14-Ja04000 Jan 10, 2014	FC023 0.2-0.3 Soil S14-Ja04002 Jan 10, 2014
Conductivity (1:5 aqueous extract at 25°C)	5	uS/cm	-	-	160	120
pH (1:5 Aqueous extract)	0.1	units	-	-	8.7	8.5
% Moisture	0.1	%	13	7.2	12	5.9
Heavy Metals						
Arsenic	2	mg/kg	6.0	5.9	11	6.8
Cadmium	0.4	mg/kg	1.0	1.4	1.8	1.0
Chromium	5	mg/kg	16	33	44	14
Copper	5	mg/kg	170	250	220	140
Lead	5	mg/kg	420	450	460	380
Mercury	0.05	mg/kg	0.60	1.2	1.8	1.1
Nickel	5	mg/kg	15	80	51	19
Zinc	5	mg/kg	460	440	470	360

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC023 4.5-4.7 Soil S14-Ja04006 Jan 10, 2014	FC026 0.2-0.3 Soil S14-Ja04007 Jan 10, 2014	FC026 1.8-2.0 Soil S14-Ja04009 Jan 10, 2014
Total Recoverable Hydrocarbons - 1999 NEPM Fractions					
TRH C6-C9	20	mg/kg	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	420	140	< 50
TRH C29-C36	50	mg/kg	320	210	< 50
TRH C10-36 (Total)	50	mg/kg	740	350	< 50
BTEX					
Benzene	0.1	mg/kg	< 0.1	-	-
Toluene	0.1	mg/kg	< 0.1	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-
o-Xylene	0.1	mg/kg	< 0.1	-	-
Xylenes - Total	0.3	mg/kg	< 0.3	-	-
4-Bromofluorobenzene (surr.)	1	%	88	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions					
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	680	290	< 100
TRH >C34-C40	100	mg/kg	200	160	< 100
Polycyclic Aromatic Hydrocarbons					
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	1.6	0.6	< 0.5
Anthracene	0.5	mg/kg	4.2	1.4	< 0.5
Benz(a)anthracene	0.5	mg/kg	10	4.2	0.7
Benzo(a)pyrene	0.5	mg/kg	10	4.7	0.9
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	8.3	3.3	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	5.2	2.8	0.6

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC023 4.5-4.7 Soil S14-Ja04006 Jan 10, 2014	FC026 0.2-0.3 Soil S14-Ja04007 Jan 10, 2014	FC026 1.8-2.0 Soil S14-Ja04009 Jan 10, 2014
Polycyclic Aromatic Hydrocarbons					
Benzo(k)fluoranthene	0.5	mg/kg	10	4.7	0.9
Chrysene	0.5	mg/kg	9.1	4.1	0.8
Dibenz(a.h)anthracene	0.5	mg/kg	1.6	0.8	< 0.5
Fluoranthene	0.5	mg/kg	21	7.2	1.2
Fluorene	0.5	mg/kg	1.3	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	5.0	2.6	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	6.4	3.8	0.6
Pyrene	0.5	mg/kg	17	6.7	1.3
Total PAH	0.5	mg/kg	110	47	7.0
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	15	7.1	1.0
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	15	7.1	1.3
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	15	7.1	1.6
2-Fluorobiphenyl (surr.)	1	%	91	89	84
p-Terphenyl-d14 (surr.)	1	%	99	97	89
Organochlorine Pesticides					
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-
4.4'-DDD	0.05	mg/kg	< 0.05	-	-
4.4'-DDE	0.05	mg/kg	< 0.05	-	-
4.4'-DDT	0.05	mg/kg	< 0.05	-	-
a-BHC	0.05	mg/kg	< 0.05	-	-
Aldrin	0.05	mg/kg	< 0.05	-	-
b-BHC	0.05	mg/kg	< 0.05	-	-
d-BHC	0.05	mg/kg	< 0.05	-	-
Dieldrin	0.05	mg/kg	< 0.05	-	-
Endosulfan I	0.05	mg/kg	< 0.05	-	-
Endosulfan II	0.05	mg/kg	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-
Endrin	0.05	mg/kg	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-
Endrin ketone	0.05	mg/kg	< 0.05	-	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	-
Heptachlor	0.05	mg/kg	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-
Methoxychlor	0.2	mg/kg	< 0.2	-	-
Toxaphene	1	mg/kg	< 1	-	-
Dibutylchlorendate (surr.)	1	%	97	-	-
Tetrachloro-m-xylene (surr.)	1	%	75	-	-
Polychlorinated Biphenyls (PCB)					
Aroclor-1016	0.5	mg/kg	< 0.5	-	-
Aroclor-1232	0.5	mg/kg	< 0.5	-	-
Aroclor-1242	0.5	mg/kg	< 0.5	-	-
Aroclor-1248	0.5	mg/kg	< 0.5	-	-
Aroclor-1254	0.5	mg/kg	< 0.5	-	-
Aroclor-1260	0.5	mg/kg	< 0.5	-	-
Total PCB	0.5	mg/kg	< 0.5	-	-
Dibutylchlorendate (surr.)	1	%	97	-	-
% Moisture	0.1	%	11	8.6	18

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC023 4.5-4.7 Soil S14-Ja04006 Jan 10, 2014	FC026 0.2-0.3 Soil S14-Ja04007 Jan 10, 2014	FC026 1.8-2.0 Soil S14-Ja04009 Jan 10, 2014
Heavy Metals					
Arsenic	2	mg/kg	8.2	7.0	4.2
Cadmium	0.4	mg/kg	1.1	1.6	0.5
Chromium	5	mg/kg	41	20	25
Copper	5	mg/kg	220	230	9.8
Lead	5	mg/kg	310	620	74
Mercury	0.05	mg/kg	0.73	0.85	0.08
Nickel	5	mg/kg	23	13	< 5
Zinc	5	mg/kg	320	630	25

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Jan 15, 2014	14 Day
- Method: E004 Petroleum Hydrocarbons (TPH)			
BTEX	Sydney	Jan 15, 2014	14 Day
- Method: E029/E016 BTEX			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jan 15, 2014	14 Day
- Method: LM-LTM-ORG2010			
Polycyclic Aromatic Hydrocarbons	Sydney	Jan 15, 2014	14 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Organochlorine Pesticides	Sydney	Jan 15, 2014	14 Day
- Method: E013 Organochlorine Pesticides (OC)			
Polychlorinated Biphenyls (PCB)	Sydney	Jan 15, 2014	28 Day
- Method: E013 Polychlorinated Biphenyls (PCB)			
Metals M8	Sydney	Jan 15, 2014	28 Day
- Method: E022 Acid Extractable metals in Soils & E026 Mercury			
Volatile Organics	Sydney	Jan 15, 2014	7 Day
- Method: E016 Volatile Organic Compounds (VOC)			
Conductivity (1:5 aqueous extract at 25°C)	Sydney	Jan 15, 2014	7 Day
- Method: E032.2 Electrical Conductivity (EC)			
pH (1:5 Aqueous extract)	Sydney	Jan 16, 2014	7 Day
- Method: E018.2 pH			
% Moisture	Sydney	Jan 15, 2014	28 Day
- Method: E005 Moisture Content			

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NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: GREEN SQUARE BLOCK A/B 43182

Order No.:
Report #: 405495
Phone: 02 8245 0300
Fax:

Received: Jan 13, 2014 5:00 PM
Due: Jan 21, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Total Recoverable Hydrocarbons	Volatile Organics	JBS&G Suite 2
Laboratory where analysis is conducted														
Melbourne Laboratory - NATA Site # 1254 & 14271														
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
External Laboratory														
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**										
FC016 0.2-0.3	Jan 10, 2014		Soil	S14-Ja03970	X	X		X						X
FC016 1.0-1.2	Jan 10, 2014		Soil	S14-Ja03971			X							
FC016 1.8-2.0	Jan 10, 2014		Soil	S14-Ja03972	X	X		X	X	X		X		
FC016 2.8-3.0	Jan 10, 2014		Soil	S14-Ja03973			X							
FC016 3.8-4.0	Jan 10, 2014		Soil	S14-Ja03974	X				X	X		X		
QC06	Jan 10, 2014		Soil	S14-Ja03975	X									X
TS	Jan 10, 2014		Water	S14-Ja03976							X			
SB	Jan 10, 2014		Water	S14-Ja03977							X			
RINSATE	Jan 10, 2014		Water	S14-Ja03978					X	X	X	X		
FC017 0.1-0.2	Jan 10, 2014		Soil	S14-Ja03979	X	X		X	X	X		X		

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Laboratory where analysis is conducted														
Melbourne Laboratory - NATA Site # 1254 & 14271														
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
External Laboratory														
FC017 0.5-0.7	Jan 10, 2014		Soil	S14-Ja03980			X							
FC017 1.2-1.4	Jan 10, 2014		Soil	S14-Ja03981	X					X		X	X	
FC017 1.8-2.0	Jan 10, 2014		Soil	S14-Ja03982	X									X
FC017 2.8-3.0	Jan 10, 2014		Soil	S14-Ja03983			X							
FC017 4.8-5.0	Jan 10, 2014		Soil	S14-Ja03984			X							
FC019 0.2-0.3	Jan 10, 2014		Soil	S14-Ja03985	X				X	X		X		
FC019 0.5-0.7	Jan 10, 2014		Soil	S14-Ja03986	X				X	X		X		
FC019 1.0-1.2	Jan 10, 2014		Soil	S14-Ja03987	X				X	X		X		
FC019 1.8-2.0	Jan 10, 2014		Soil	S14-Ja03988			X							
FC019 3.5-3.7	Jan 10, 2014		Soil	S14-Ja03989	X									X
FC019 4.5-4.7	Jan 10, 2014		Soil	S14-Ja03990			X							

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Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Total Recoverable Hydrocarbons	Volatile Organics	JBS&G Suite 2
Laboratory where analysis is conducted														
Melbourne Laboratory - NATA Site # 1254 & 14271														
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
External Laboratory														
FC020 0.2-0.3	Jan 10, 2014		Soil	S14-Ja03991	X	X		X	X	X		X		
FC020 0.5-0.7	Jan 10, 2014		Soil	S14-Ja03992			X							
FC020 1.0-1.2	Jan 10, 2014		Soil	S14-Ja03993	X				X	X		X		
FC020 1.8-2.0	Jan 10, 2014		Soil	S14-Ja03994			X							
FC020 3.5-3.7	Jan 10, 2014		Soil	S14-Ja03995			X							
FC020 4.8-5.0	Jan 10, 2014		Soil	S14-Ja03996			X							
FC022 0.1-0.2	Jan 10, 2014		Soil	S14-Ja03997			X							
FC022 0.4-0.6	Jan 10, 2014		Soil	S14-Ja03998	X									X
FC022 1.8-2.0	Jan 10, 2014		Soil	S14-Ja03999			X							
FC022 3.5-3.7	Jan 10, 2014		Soil	S14-Ja04000	X	X		X	X	X		X		
FC022 4.8-5.0	Jan 10, 2014		Soil	S14-Ja04001			X							

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Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Total Recoverable Hydrocarbons	Volatile Organics	JBS&G Suite 2
Laboratory where analysis is conducted														
Melbourne Laboratory - NATA Site # 1254 & 14271														
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
External Laboratory														
FC023 0.2-0.3	Jan 10, 2014		Soil	S14-Ja04002	X	X		X	X	X		X		
FC023 1.0-1.2	Jan 10, 2014		Soil	S14-Ja04003			X							
FC023 2.2-2.4	Jan 10, 2014		Soil	S14-Ja04004			X							
FC023 3.2-3.4	Jan 10, 2014		Soil	S14-Ja04005			X							
FC023 4.5-4.7	Jan 10, 2014		Soil	S14-Ja04006	X									X
FC026 0.2-0.3	Jan 10, 2014		Soil	S14-Ja04007	X				X	X		X		
FC026 0.6-0.8	Jan 10, 2014		Soil	S14-Ja04008			X							
FC026 1.8-2.0	Jan 10, 2014		Soil	S14-Ja04009	X				X	X		X		
FC026 3.5-3.7	Jan 10, 2014		Soil	S14-Ja04010			X							
FC026 4.5-4.7	Jan 10, 2014		Soil	S14-Ja04011			X							

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH C6-C10 less BTEX (F1)	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/kg	< 0.05			0.05	Pass	
1.1-Dichloroethene	mg/kg	< 0.05			0.05	Pass	
1.1.1-Trichloroethane	mg/kg	< 0.05			0.05	Pass	
1.1.1.2-Tetrachloroethane	mg/kg	< 0.05			0.05	Pass	
1.1.2-Trichloroethane	mg/kg	< 0.05			0.05	Pass	
1.1.2.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dibromoethane	mg/kg	< 0.05			0.05	Pass	
1.2-Dichlorobenzene	mg/kg	< 0.05			0.05	Pass	
1.2-Dichloroethane	mg/kg	< 0.05			0.05	Pass	
1.2-Dichloropropane	mg/kg	< 0.05			0.05	Pass	
1.2.3-Trichloropropane	mg/kg	< 0.05			0.05	Pass	
1.2.4-Trimethylbenzene	mg/kg	< 0.05			0.05	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.05			0.05	Pass	
1.3-Dichloropropane	mg/kg	< 0.05			0.05	Pass	
1.3.5-Trimethylbenzene	mg/kg	< 0.05			0.05	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.05			0.05	Pass	
2-Butanone (MEK)	mg/kg	< 0.05			0.05	Pass	
4-Chlorotoluene	mg/kg	< 0.05			0.05	Pass	
4-Methyl-2-pentanone (MIBK)	mg/kg	< 0.05			0.05	Pass	
Bromobenzene	mg/kg	< 0.05			0.05	Pass	
Bromochloromethane	mg/kg	< 0.05			0.05	Pass	
Bromodichloromethane	mg/kg	< 0.05			0.05	Pass	
Bromoform	mg/kg	< 0.05			0.05	Pass	
Bromomethane	mg/kg	< 0.05			0.05	Pass	
Carbon disulfide	mg/kg	< 0.05			0.05	Pass	
Carbon Tetrachloride	mg/kg	< 0.05			0.05	Pass	
Chlorobenzene	mg/kg	< 0.05			0.05	Pass	
Chloroethane	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Chloroform	mg/kg	< 0.05			0.05	Pass	
Chloromethane	mg/kg	< 0.05			0.05	Pass	
cis-1.2-Dichloroethene	mg/kg	< 0.05			0.05	Pass	
cis-1.3-Dichloropropene	mg/kg	< 0.05			0.05	Pass	
Dibromochloromethane	mg/kg	< 0.05			0.05	Pass	
Dibromomethane	mg/kg	< 0.5			0.5	Pass	
Dichlorodifluoromethane	mg/kg	< 0.05			0.05	Pass	
Iodomethane	mg/kg	< 0.05			0.05	Pass	
Isopropyl benzene (Cumene)	mg/kg	< 0.05			0.05	Pass	
Methylene Chloride	mg/kg	< 0.05			0.05	Pass	
Styrene	mg/kg	< 0.05			0.05	Pass	
Tetrachloroethene	mg/kg	< 0.05			0.05	Pass	
trans-1.2-Dichloroethene	mg/kg	< 0.05			0.05	Pass	
trans-1.3-Dichloropropene	mg/kg	< 0.05			0.05	Pass	
Trichloroethene	mg/kg	< 0.05			0.05	Pass	
Trichlorofluoromethane	mg/kg	< 0.05			0.05	Pass	
Vinyl chloride	mg/kg	< 0.05			0.05	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-BHC	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-BHC	mg/kg	< 0.05			0.05	Pass	
d-BHC	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-BHC (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.2			0.2	Pass	
Toxaphene	mg/kg	< 1			1	Pass	
Method Blank							
Polychlorinated Biphenyls (PCB)							
Aroclor-1016	mg/kg	< 0.5			0.5	Pass	
Aroclor-1232	mg/kg	< 0.5			0.5	Pass	
Aroclor-1242	mg/kg	< 0.5			0.5	Pass	
Aroclor-1248	mg/kg	< 0.5			0.5	Pass	
Aroclor-1254	mg/kg	< 0.5			0.5	Pass	
Aroclor-1260	mg/kg	< 0.5			0.5	Pass	
Total PCB	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.05			0.05	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	79			70-130	Pass	
TRH C10-C14	%	79			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	99			70-130	Pass	
Toluene	%	96			70-130	Pass	
Ethylbenzene	%	92			70-130	Pass	
m&p-Xylenes	%	96			70-130	Pass	
o-Xylene	%	94			70-130	Pass	
Xylenes - Total	%	95			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	98			70-130	Pass	
TRH C6-C10	%	84			70-130	Pass	
TRH >C10-C16	%	85			70-130	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethane	%	96			75-125	Pass	
1.1-Dichloroethene	%	99			70-130	Pass	
1.1.1-Trichloroethane	%	96			70-130	Pass	
1.1.1.2-Tetrachloroethane	%	99			70-130	Pass	
1.1.2-Trichloroethane	%	108			70-130	Pass	
1.1.2.2-Tetrachloroethane	%	120			70-130	Pass	
1.2-Dibromoethane	%	111			70-130	Pass	
1.2-Dichlorobenzene	%	105			70-130	Pass	
1.2-Dichloroethane	%	104			70-130	Pass	
1.2-Dichloropropane	%	101			70-130	Pass	
1.2.3-Trichloropropane	%	119			70-130	Pass	
1.2.4-Trimethylbenzene	%	104			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
1.3-Dichlorobenzene	%	106			70-130	Pass	
1.3-Dichloropropane	%	110			70-130	Pass	
1.3.5-Trimethylbenzene	%	106			70-130	Pass	
1.4-Dichlorobenzene	%	107			70-130	Pass	
2-Butanone (MEK)	%	112			70-130	Pass	
4-Chlorotoluene	%	107			70-130	Pass	
4-Methyl-2-pentanone (MIBK)	%	115			70-130	Pass	
Bromobenzene	%	111			70-130	Pass	
Bromochloromethane	%	99			70-130	Pass	
Bromodichloromethane	%	99			70-130	Pass	
Bromoform	%	104			70-130	Pass	
Bromomethane	%	98			70-130	Pass	
Carbon disulfide	%	116			70-130	Pass	
Carbon Tetrachloride	%	95			70-130	Pass	
Chlorobenzene	%	102			70-130	Pass	
Chloroethane	%	97			70-130	Pass	
Chloroform	%	98			70-130	Pass	
Chloromethane	%	89			70-130	Pass	
cis-1.2-Dichloroethene	%	99			70-130	Pass	
cis-1.3-Dichloropropene	%	100			70-130	Pass	
Dibromochloromethane	%	104			70-130	Pass	
Dibromomethane	%	86			70-130	Pass	
Iodomethane	%	92			75-125	Pass	
Isopropyl benzene (Cumene)	%	102			70-130	Pass	
Methylene Chloride	%	101			70-130	Pass	
Styrene	%	105			70-130	Pass	
Tetrachloroethene	%	105			70-130	Pass	
trans-1.2-Dichloroethene	%	98			70-130	Pass	
trans-1.3-Dichloropropene	%	100			70-130	Pass	
Trichloroethene	%	100			70-130	Pass	
Trichlorofluoromethane	%	91			70-130	Pass	
Vinyl chloride	%	87			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	118			70-130	Pass	
Acenaphthylene	%	111			70-130	Pass	
Anthracene	%	114			70-130	Pass	
Benz(a)anthracene	%	106			70-130	Pass	
Benzo(a)pyrene	%	108			70-130	Pass	
Benzo(b&j)fluoranthene	%	100			70-130	Pass	
Benzo(g.h.i)perylene	%	114			70-130	Pass	
Benzo(k)fluoranthene	%	116			70-130	Pass	
Chrysene	%	113			70-130	Pass	
Dibenz(a.h)anthracene	%	118			70-130	Pass	
Fluoranthene	%	108			70-130	Pass	
Fluorene	%	119			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	118			70-130	Pass	
Naphthalene	%	117			70-130	Pass	
Phenanthrene	%	109			70-130	Pass	
Pyrene	%	106			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	87			70-130	Pass	
4.4'-DDD	%	92			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
4.4'-DDE	%	89			70-130	Pass	
4.4'-DDT	%	81			70-130	Pass	
a-BHC	%	91			70-130	Pass	
Aldrin	%	89			70-130	Pass	
b-BHC	%	96			70-130	Pass	
d-BHC	%	97			70-130	Pass	
Dieldrin	%	85			70-130	Pass	
Endosulfan I	%	99			70-130	Pass	
Endosulfan II	%	85			70-130	Pass	
Endosulfan sulphate	%	85			70-130	Pass	
Endrin	%	90			70-130	Pass	
Endrin aldehyde	%	85			70-130	Pass	
Endrin ketone	%	85			70-130	Pass	
g-BHC (Lindane)	%	98			70-130	Pass	
Heptachlor	%	87			70-130	Pass	
Heptachlor epoxide	%	101			70-130	Pass	
Hexachlorobenzene	%	78			70-130	Pass	
Methoxychlor	%	89			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls (PCB)							
Aroclor-1260	%	94			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	82			70-130	Pass	
Cadmium	%	84			70-130	Pass	
Chromium	%	80			70-130	Pass	
Copper	%	77			70-130	Pass	
Lead	%	77			70-130	Pass	
Mercury	%	82			70-130	Pass	
Nickel	%	78			70-130	Pass	
Zinc	%	83			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S14-Ja03970	CP	%	91			70-130	Pass	
TRH C10-C14	S14-Ja03970	CP	%	96			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S14-Ja03970	CP	%	96			70-130	Pass	
Toluene	S14-Ja03970	CP	%	97			70-130	Pass	
Ethylbenzene	S14-Ja03970	CP	%	98			70-130	Pass	
m&p-Xylenes	S14-Ja03970	CP	%	106			70-130	Pass	
o-Xylene	S14-Ja03970	CP	%	103			70-130	Pass	
Xylenes - Total	S14-Ja03970	CP	%	105			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S14-Ja03970	CP	%	120			70-130	Pass	
TRH C6-C10	S14-Ja03970	CP	%	100			70-130	Pass	
TRH >C10-C16	S14-Ja03970	CP	%	108			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S14-Ja03874	NCP	%	120			70-130	Pass	
Acenaphthylene	S14-Ja03874	NCP	%	116			70-130	Pass	
Anthracene	S14-Ja03874	NCP	%	121			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Benz(a)anthracene	S14-Ja03874	NCP	%	119			70-130	Pass	
Benzo(a)pyrene	S14-Ja03874	NCP	%	121			70-130	Pass	
Benzo(b&j)fluoranthene	S14-Ja03874	NCP	%	113			70-130	Pass	
Benzo(g.h.i)perylene	S14-Ja03874	NCP	%	124			70-130	Pass	
Benzo(k)fluoranthene	S14-Ja03874	NCP	%	124			70-130	Pass	
Chrysene	S14-Ja03874	NCP	%	121			70-130	Pass	
Dibenz(a.h)anthracene	S14-Ja03874	NCP	%	123			70-130	Pass	
Fluoranthene	S14-Ja03874	NCP	%	125			70-130	Pass	
Fluorene	S14-Ja03874	NCP	%	125			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja03874	NCP	%	125			70-130	Pass	
Naphthalene	S14-Ja03874	NCP	%	121			70-130	Pass	
Phenanthrene	S14-Ja03874	NCP	%	119			70-130	Pass	
Pyrene	S14-Ja03874	NCP	%	121			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S14-Ja03640	NCP	%	99			70-130	Pass	
4.4'-DDD	S14-Ja03640	NCP	%	109			70-130	Pass	
4.4'-DDE	S14-Ja03640	NCP	%	107			70-130	Pass	
4.4'-DDT	S14-Ja03640	NCP	%	86			70-130	Pass	
a-BHC	S14-Ja03640	NCP	%	111			70-130	Pass	
Aldrin	S14-Ja03640	NCP	%	107			70-130	Pass	
b-BHC	S14-Ja03640	NCP	%	114			70-130	Pass	
d-BHC	S14-Ja03640	NCP	%	113			70-130	Pass	
Dieldrin	S14-Ja03640	NCP	%	96			70-130	Pass	
Endosulfan I	S14-Ja03640	NCP	%	107			70-130	Pass	
Endosulfan II	S14-Ja03640	NCP	%	94			70-130	Pass	
Endosulfan sulphate	S14-Ja03640	NCP	%	90			70-130	Pass	
Endrin	S14-Ja03640	NCP	%	102			70-130	Pass	
Endrin aldehyde	S14-Ja03640	NCP	%	80			70-130	Pass	
Endrin ketone	S14-Ja03640	NCP	%	91			70-130	Pass	
g-BHC (Lindane)	S14-Ja03640	NCP	%	115			70-130	Pass	
Heptachlor	S14-Ja03640	NCP	%	103			70-130	Pass	
Heptachlor epoxide	S14-Ja03640	NCP	%	101			70-130	Pass	
Hexachlorobenzene	S14-Ja03640	NCP	%	94			70-130	Pass	
Methoxychlor	S14-Ja03640	NCP	%	105			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S14-Ja03970	CP	%	111			70-130	Pass	
Cadmium	S14-Ja03970	CP	%	104			70-130	Pass	
Chromium	S14-Ja03970	CP	%	119			70-130	Pass	
Copper	S14-Ja03874	NCP	%	100			70-130	Pass	
Lead	S14-Ja03874	NCP	%	89			70-130	Pass	
Mercury	S14-Ja03970	CP	%	99			70-130	Pass	
Zinc	S14-Ja03551	NCP	%	104			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls (PCB)				Result 1					
Aroclor-1260	S14-Ja03678	NCP	%	108			70-130	Pass	
Spike - % Recovery									
Volatile Organics				Result 1					
1.1-Dichloroethane	S14-Ja03494	NCP	%	90			75-125	Pass	
1.1-Dichloroethene	S14-Ja03494	NCP	%	95			70-130	Pass	
1.1.1-Trichloroethane	S14-Ja03494	NCP	%	89			70-130	Pass	
1.1.1.2-Tetrachloroethane	S14-Ja03494	NCP	%	97			70-130	Pass	
1.1.2-Trichloroethane	S14-Ja03494	NCP	%	102			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
1.1.2.2-Tetrachloroethane	S14-Ja03494	NCP	%	118			70-130	Pass	
1.2-Dibromoethane	S14-Ja03494	NCP	%	105			70-130	Pass	
1.2-Dichlorobenzene	S14-Ja03494	NCP	%	97			70-130	Pass	
1.2-Dichloroethane	S14-Ja03494	NCP	%	95			70-130	Pass	
1.2-Dichloropropane	S14-Ja03494	NCP	%	96			70-130	Pass	
1.2.3-Trichloropropane	S14-Ja03494	NCP	%	110			70-130	Pass	
1.2.4-Trimethylbenzene	S14-Ja03494	NCP	%	98			70-130	Pass	
1.3-Dichlorobenzene	S14-Ja03494	NCP	%	98			70-130	Pass	
1.3-Dichloropropane	S14-Ja03494	NCP	%	104			70-130	Pass	
1.3.5-Trimethylbenzene	S14-Ja03494	NCP	%	99			70-130	Pass	
1.4-Dichlorobenzene	S14-Ja03494	NCP	%	99			70-130	Pass	
2-Butanone (MEK)	S14-Ja03494	NCP	%	103			70-130	Pass	
4-Chlorotoluene	S14-Ja03494	NCP	%	99			70-130	Pass	
4-Methyl-2-pentanone (MIBK)	S14-Ja03494	NCP	%	103			70-130	Pass	
Bromobenzene	S14-Ja03494	NCP	%	102			70-130	Pass	
Bromochloromethane	S14-Ja03494	NCP	%	93			70-130	Pass	
Bromodichloromethane	S14-Ja03494	NCP	%	93			70-130	Pass	
Bromoform	S14-Ja03494	NCP	%	97			70-130	Pass	
Bromomethane	S14-Ja03494	NCP	%	95			70-130	Pass	
Carbon disulfide	S14-Ja03494	NCP	%	114			70-130	Pass	
Carbon Tetrachloride	S14-Ja03494	NCP	%	88			70-130	Pass	
Chlorobenzene	S14-Ja03494	NCP	%	102			70-130	Pass	
Chloroethane	S14-Ja03494	NCP	%	93			70-130	Pass	
Chloroform	S14-Ja03494	NCP	%	94			70-130	Pass	
Chloromethane	S14-Ja03494	NCP	%	78			70-130	Pass	
cis-1.2-Dichloroethene	S14-Ja03494	NCP	%	93			70-130	Pass	
cis-1.3-Dichloropropene	S14-Ja03494	NCP	%	92			70-130	Pass	
Dibromochloromethane	S14-Ja03494	NCP	%	96			70-130	Pass	
Dibromomethane	S14-Ja03494	NCP	%	90			70-130	Pass	
Iodomethane	S14-Ja03494	NCP	%	88			75-125	Pass	
Isopropyl benzene (Cumene)	S14-Ja03494	NCP	%	102			70-130	Pass	
Methylene Chloride	S14-Ja03494	NCP	%	96			70-130	Pass	
Styrene	S14-Ja03494	NCP	%	101			70-130	Pass	
Tetrachloroethene	S14-Ja03494	NCP	%	101			70-130	Pass	
trans-1.2-Dichloroethene	S14-Ja03494	NCP	%	98			70-130	Pass	
trans-1.3-Dichloropropene	S14-Ja03494	NCP	%	92			70-130	Pass	
Trichloroethene	S14-Ja03494	NCP	%	96			70-130	Pass	
Trichlorofluoromethane	S14-Ja03494	NCP	%	88			70-130	Pass	
Vinyl chloride	S14-Ja03494	NCP	%	85			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S14-Ja03989	CP	%	96			70-130	Pass	
TRH C10-C14	S14-Ja03989	CP	%	103			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S14-Ja03989	CP	%	95			70-130	Pass	
Toluene	S14-Ja03989	CP	%	92			70-130	Pass	
Ethylbenzene	S14-Ja03989	CP	%	91			70-130	Pass	
m&p-Xylenes	S14-Ja03989	CP	%	97			70-130	Pass	
o-Xylene	S14-Ja03989	CP	%	95			70-130	Pass	
Xylenes - Total	S14-Ja03989	CP	%	97			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S14-Ja03989	CP	%	112			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
TRH C6-C10	S14-Ja03989	CP	%	93			70-130	Pass	
TRH >C10-C16	S14-Ja03989	CP	%	130			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S14-Ja03989	CP	%	103			70-130	Pass	
Cadmium	S14-Ja03989	CP	%	107			70-130	Pass	
Chromium	S14-Ja03989	CP	%	101			70-130	Pass	
Mercury	S14-Ja03989	CP	%	107			70-130	Pass	
Nickel	S14-Ja03989	CP	%	105			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S14-Ja03970	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S14-Ja03970	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S14-Ja03970	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S14-Ja03970	CP	mg/kg	56	56	1.0	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S14-Ja03970	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S14-Ja03970	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S14-Ja03970	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S14-Ja03970	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S14-Ja03970	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total	S14-Ja03970	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S14-Ja03970	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S14-Ja03970	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S14-Ja03970	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S14-Ja03970	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S14-Ja03970	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S14-Ja03970	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S14-Ja03970	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S14-Ja03970	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S14-Ja03970	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S14-Ja03970	CP	mg/kg	0.6	0.7	23	30%	Pass	
Benzo(a)pyrene	S14-Ja03970	CP	mg/kg	0.7	0.9	27	30%	Pass	
Benzo(b&j)fluoranthene	S14-Ja03970	CP	mg/kg	0.6	0.9	30	30%	Pass	
Benzo(g.h.i)perylene	S14-Ja03970	CP	mg/kg	0.6	0.7	28	30%	Pass	
Benzo(k)fluoranthene	S14-Ja03970	CP	mg/kg	0.7	1.2	46	30%	Fail	Q15
Chrysene	S14-Ja03970	CP	mg/kg	0.6	0.8	28	30%	Pass	
Dibenz(a.h)anthracene	S14-Ja03970	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S14-Ja03970	CP	mg/kg	0.9	1.1	15	30%	Pass	
Fluorene	S14-Ja03970	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja03970	CP	mg/kg	0.6	0.7	18	30%	Pass	
Naphthalene	S14-Ja03970	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S14-Ja03970	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S14-Ja03970	CP	mg/kg	1.0	1.2	15	30%	Pass	

Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S14-Ja03970	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S14-Ja03970	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S14-Ja03970	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S14-Ja03970	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	S14-Ja03970	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S14-Ja03970	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	S14-Ja03970	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-BHC	S14-Ja03970	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S14-Ja03970	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S14-Ja03970	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S14-Ja03970	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S14-Ja03970	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S14-Ja03970	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S14-Ja03970	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S14-Ja03970	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	S14-Ja03970	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S14-Ja03970	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S14-Ja03970	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S14-Ja03970	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S14-Ja03970	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Toxaphene	S14-Ja03970	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls (PCB)				Result 1	Result 2	RPD			
Aroclor-1016	S14-Ja03970	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1232	S14-Ja03970	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1242	S14-Ja03970	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1248	S14-Ja03970	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1254	S14-Ja03970	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1260	S14-Ja03970	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Conductivity (1:5 aqueous extract at 25°C)	S14-Ja04013	NCP	uS/cm	74	74	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S14-Ja03970	CP	mg/kg	5.3	6.4	19	30%	Pass	
Cadmium	S14-Ja03970	CP	mg/kg	3.4	3.1	9.0	30%	Pass	
Chromium	S14-Ja03970	CP	mg/kg	23	25	10	30%	Pass	
Copper	S14-Ja03970	CP	mg/kg	160	150	7.0	30%	Pass	
Lead	S14-Ja03970	CP	mg/kg	410	340	19	30%	Pass	
Mercury	S14-Ja03970	CP	mg/kg	0.84	0.68	21	30%	Pass	
Nickel	S14-Ja03970	CP	mg/kg	49	55	11	30%	Pass	
Zinc	S14-Ja03970	CP	mg/kg	500	490	2.0	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.1-Dichloroethene	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.1.1-Trichloroethane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.1.2-Trichloroethane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	S14-Ja03494	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromoethane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.2-Dichlorobenzene	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.2-Dichloroethane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	

Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.2-Dichloropropane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.2.3-Trichloropropane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.2.4-Trimethylbenzene	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.3-Dichlorobenzene	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.3-Dichloropropane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.3.5-Trimethylbenzene	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.4-Dichlorobenzene	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
2-Butanone (MEK)	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4-Chlorotoluene	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Bromobenzene	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Bromochloromethane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Bromodichloromethane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Bromoform	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Bromomethane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Carbon disulfide	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Carbon Tetrachloride	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Chlorobenzene	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Chloroethane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Chloroform	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Chloromethane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
cis-1.2-Dichloroethene	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
cis-1.3-Dichloropropene	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dibromochloromethane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dibromomethane	S14-Ja03494	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorodifluoromethane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Iodomethane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Isopropyl benzene (Cumene)	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methylene Chloride	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Styrene	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Tetrachloroethene	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
trans-1.2-Dichloroethene	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
trans-1.3-Dichloropropene	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Trichloroethene	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Trichlorofluoromethane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Vinyl chloride	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S14-Ja03989	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S14-Ja03989	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S14-Ja03989	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S14-Ja03989	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S14-Ja03989	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S14-Ja03989	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total	S14-Ja03989	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S14-Ja03989	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S14-Ja03989	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S14-Ja03989	CP	mg/kg	< 20	< 20	<1	30%	Pass	

Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S14-Ja03989	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S14-Ja03989	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S14-Ja03989	CP	mg/kg	0.8	1.0	15	30%	Pass	
Benz(a)anthracene	S14-Ja03989	CP	mg/kg	2.6	2.1	24	30%	Pass	
Benzo(a)pyrene	S14-Ja03989	CP	mg/kg	3.2	2.2	35	30%	Fail	Q15
Benzo(b&j)fluoranthene	S14-Ja03989	CP	mg/kg	1.4	1.4	1.0	30%	Pass	
Benzo(g.h.i)perylene	S14-Ja03989	CP	mg/kg	2.1	1.5	33	30%	Fail	Q15
Benzo(k)fluoranthene	S14-Ja03989	CP	mg/kg	2.9	2.2	25	30%	Pass	
Chrysene	S14-Ja03989	CP	mg/kg	2.6	2.3	13	30%	Pass	
Dibenz(a.h)anthracene	S14-Ja03989	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S14-Ja03989	CP	mg/kg	4.6	3.5	28	30%	Pass	
Fluorene	S14-Ja03989	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja03989	CP	mg/kg	1.9	1.3	36	30%	Fail	Q15
Naphthalene	S14-Ja03989	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S14-Ja03989	CP	mg/kg	2.1	2.2	3.0	30%	Pass	
Pyrene	S14-Ja03989	CP	mg/kg	4.8	3.4	33	30%	Fail	Q15
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S14-Ja03989	CP	mg/kg	11	9.4	17	30%	Pass	
Cadmium	S14-Ja03989	CP	mg/kg	1.3	1.1	14	30%	Pass	
Chromium	S14-Ja03989	CP	mg/kg	19	13	39	30%	Fail	Q15
Copper	S14-Ja03989	CP	mg/kg	220	190	15	30%	Pass	
Lead	S14-Ja03989	CP	mg/kg	550	670	19	30%	Pass	
Mercury	S14-Ja03989	CP	mg/kg	0.76	0.63	18	30%	Pass	
Nickel	S14-Ja03989	CP	mg/kg	20	19	4.0	30%	Pass	
Zinc	S14-Ja03989	CP	mg/kg	490	420	15	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	No
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q15	The RPD reported passes Eurofins | mgt's Acceptance Criteria as stipulated in SOP 05. Refer to Glossary Page of this report for further details

Authorised By

Jean Heng	Client Services
Bob Symons	Senior Analyst-Inorganic (NSW)
James Norford	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)
Ryan Hamilton	Senior Analyst-Volatile (NSW)

Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

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eurofins | mgt
Unit F3-F6 Building F, Parkview Building
16 Mars Road, Lane Cove West
NSW 2066

CHAIN OF CUSTODY

#405495

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square Blocks 16 A/B
SEND REPORT TO: N Cussen SEND INVOICE TO: E Ng
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: Chris B
PHONE: SYDNEY 02 82450300 PERTH 08 9488 0100 EMAIL: ncussen@jbsg.com.au
QC LEVEL: NEPM (2013)

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	JB1	JB1T	JB1A	JB2	JB2A	B10	JB2/JBL	JB3/JBL	JB4	JBL	BTEX	8 Metals	TRH	PAH	BTEX	PAH	EC	VOCs	NOTES:
FC016 0.2-0.3	Soil	10/1/14		Jar + Ice					X												X	X		
FC016 1.0-1.2																								
FC016 1.8-2.0																	X	X	X		X	X		
FC016 2.8-3.0																								
FC016 3.8-4.0																	X	X	X					
QC06									X															
TS	Water															X								
TB																X								
Rinsate																	X	X	X	X				
FC017 0.0-0.2	Soil																X	X	X		X	X		
FC017 0.5-0.7																								
FC017 1.2-1.4																	X	X					X	
FC017 1.8-2.0									X															
FC017 2.8-3.0																								
FC017 4.9-5.0																								
FC019 0.2-0.3																	X	X	X					
FC019 0.5-0.7																								
FC019 1.0-1.2																	X	X	X					
FC019 1.8-2.0																								

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Nathan DATE: 10/1/14	CONSIGNMENT NOTE NO.	NAME: Ellen WG DATE: 130114	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	OF: Eflmgt 1700	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - eurofins mgt

JB1 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1T - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos
JB2 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
B10 - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2/JBL - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)
JB3/JBL - TRH/BTEX/PAH/OCP/OPP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)/Asbestos
JB4 - TRH/BTEX/VOC
JBL - TCLP(PAH & 6 Metals)

eurofins | mgt
Unit F3-F6 Building F, Parkview Building
16 Mars Road, Lane Cove West
NSW 2066

CHAIN OF CUSTODY

#405495

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square Block 16A/B
SEND REPORT TO: N Cussen SEND INVOICE TO: G Ng
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: Chris D
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: ncussen@jbsg.com.au
QC LEVEL: NEPM (2013)

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	JBS&G SPECIFIC SUITES: JB1	JB1T	JB1A	JB2	JB2A	B10	JB2/JBL	JB3/JBL	JB4	JBL	8 Metals	TRH	PAH	PAH	ER	NOTES:
FC019 3.5-3.7	Soil	6/1/14		Jar + Ice					X												
FC019 4.5-4.7																					
FC020 0.2-0.3																X	X	X	X	X	
FC020 0.5-0.7																					
FC020 1.0-1.2																X	X	X			
FC020 1.8-2.0																					
FC020 3.5-3.7																					
FC020 4.8-5.0																					
FC022 0.1-0.2																					
FC022 0.4-0.6									X												
FC022 1.8-2.0																					
FC022 3.5-3.7																X	X	X	X	X	
FC022 4.8-5.0																					
FC023 0.2-0.3																X	X	X	X	X	
FC023 1.0-1.2																					
FC023 2.2-2.4																					
FC023 3.2-3.4																					
FC023 4.5-4.7									X												
FC026 0.2-0.3																X	X	X			

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Nathan DATE: 6/1/14	CONSIGNMENT NOTE NO.	NAME: Elen NG 130114	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: OF: ERMgt 1700	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - eurofins mgt

JB1 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1T - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos
JB2 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
B10 - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2/JBL - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)
JB3/JBL - TRH/BTEX/PAH/OCP/OPP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)/Asbestos
JB4 - TRH/BTEX/VOC
JBL - TCLP(PAH & 6 Metals)

eurofins | mgt
Unit F3-F6 Building F, Parkview Building
16 Mars Road, Lane Cove West
NSW 2066

CHAIN OF CUSTODY

405495

JBS&G

PROJECT NO.: 42182
PROJECT NAME: Green Square Block 1C A/B
SEND REPORT TO: N Cussen SEND INVOICE TO: G NG
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: CB
PHONE: SYDNEY 02 82450300 / PERTH 08 9488 0100 EMAIL: ncussen@jbsg.com.au
QC LEVEL: NEPM (2013)

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	JB1	JB1T	JB1A	JB2	JB2A	B10	JB2/JBL	JB3/JBL	JB4	JBL	8 Metals	TRH	PAH	pH	EC	NOTES:
FC026 0.6-0.8	Soil	10/1/14		Jar + Ice												X	X	X			
FC026 1.8-2.0	↓	↓		↓																	
FC026 3.5-3.7																					
FC026 4.5-4.7	↓	↓		↓																	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Nathan DATE: 10/1/14	CONSIGNMENT NOTE NO.	NAME: Ellen WG 130114	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: OF: EF mgt 1700	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

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IMSO FormsO13 – Chain of Custody - eurofins mgt

JB1 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1T - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos
JB2 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
B10 - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2/JBL - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)
JB3/JBL - TRH/BTEX/PAH/OCP/OPP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)/Asbestos
JB4 - TRH/BTEX/VOC
JBL - TCLP(PAH & 6 Metals)

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

SAMPLE RECEIPT ADVICE

Client:

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney NSW 2000

ph: 02 8245 0300
Fax: 02 8245 0399

Attention: Joanne Rosner, Nathan Cussen

Sample log in details:

Your reference:	**43182, Green Square Block 16AB**
Envirolab Reference:	**103630**
Date received:	17/01/14
Date results expected to be reported:	**24/01/14**

Samples received in appropriate condition for analysis:	YES
No. of samples provided	1 soil
Turnaround time requested:	Standard
Temperature on receipt (°C)	NA
Cooling Method:	None
Sampling Date Provided:	YES

Comments:

Samples will be held for 1 month for water samples and 2 months for soil samples from date of receipt of samples.

Contact details:

Please direct any queries to Aileen Hie or Jacinta Hurst
ph: 02 9910 6200 fax: 02 9910 6201
email: ahie@envirolabservices.com.au or jhurst@envirolabservices.com.au

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

CERTIFICATE OF ANALYSIS 103630

Client:
JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention: Joanne Rosner, Nathan Cussen

Sample log in details:

Your Reference:	**43182, Green Square Block 16AB**		
No. of samples:	1 soil		
Date samples received / completed instructions received	17/01/14	/	17/01/14

Analysis Details:
Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by: / Issue Date:	24/01/14	/	22/01/14
Date of Preliminary Report:	Not issued		

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Accredited for compliance with ISO/IEC 17025. **Tests not covered by NATA are denoted with *.**

Results Approved By:

Jacinta Hurst
Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil		
Our Reference:	UNITS	103630-1
Your Reference	----------	QC17-A
Date Sampled	----------	15/01/2014
Type of sample		soil
Date extracted	-	20/01/2014
Date analysed	-	22/01/2014
TRHC$_6$ - C$_9$	mg/kg	<25
TRHC$_6$ - C$_{10}$	mg/kg	<25
vTPHC$_6$ - C$_{10}$ less BTEX (F1)	mg/kg	<25
Benzene	mg/kg	<0.2
Toluene	mg/kg	<0.5
Ethylbenzene	mg/kg	<1
m+p-xylene	mg/kg	<2
o-Xylene	mg/kg	<1
naphthalene	mg/kg	<1
Surrogate aaa-Trifluorotoluene	%	87

svTRH (C10-C40) in Soil		
Our Reference:	UNITS	103630-1
Your Reference	----------	QC17-A
Date Sampled	----------	15/01/2014
Type of sample		soil
Date extracted	-	20/01/2014
Date analysed	-	22/01/2014
TRHC$_{10}$ - C$_{14}$	mg/kg	<50
TRHC$_{15}$ - C$_{28}$	mg/kg	400
TRHC$_{29}$ - C$_{36}$	mg/kg	500
TRH>C$_{10}$-C$_{16}$	mg/kg	<50
TRH>C$_{10}$ - C$_{16}$ less Naphthalene (F2)	mg/kg	<50
TRH>C$_{16}$-C$_{34}$	mg/kg	780
TRH>C$_{34}$-C$_{40}$	mg/kg	180
Surrogate o-Terphenyl	%	93

PAHs in Soil		
Our Reference:	UNITS	103630-1
Your Reference	----------	QC17-A
Date Sampled	----------	15/01/2014
Type of sample		soil
Date extracted	-	20/01/2014
Date analysed	-	22/01/2014
Naphthalene	mg/kg	0.2
Acenaphthylene	mg/kg	0.5
Acenaphthene	mg/kg	0.2
Fluorene	mg/kg	0.5
Phenanthrene	mg/kg	3.1
Anthracene	mg/kg	1.3
Fluoranthene	mg/kg	11
Pyrene	mg/kg	12
Benzo(a)anthracene	mg/kg	6.2
Chrysene	mg/kg	6.2
Benzo(b+k)fluoranthene	mg/kg	12
Benzo(a)pyrene	mg/kg	8.1
Indeno(1,2,3-c,d)pyrene	mg/kg	5.3
Dibenzo(a,h)anthracene	mg/kg	1.1
Benzo(g,h,i)perylene	mg/kg	5.3
Benzo(a)pyrene TEQ NEPM B1	mg/kg	12
Total +ve PAH's	mg/kg	73
Surrogate p-Terphenyl-d14	%	113

Organochlorine Pesticides in soil		
Our Reference:	UNITS	103630-1
Your Reference	----------	QC17-A
Date Sampled	----------	15/01/2014
Type of sample		soil
Date extracted	-	20/01/2014
Date analysed	-	22/01/2014
HCB	mg/kg	<0.1
alpha-BHC	mg/kg	<0.1
gamma-BHC	mg/kg	<0.1
beta-BHC	mg/kg	<0.1
Heptachlor	mg/kg	<0.1
delta-BHC	mg/kg	<0.1
Aldrin	mg/kg	<0.1
Heptachlor Epoxide	mg/kg	<0.1
gamma-Chlordane	mg/kg	<0.1
alpha-chlordane	mg/kg	<0.1
Endosulfan I	mg/kg	<0.1
pp-DDE	mg/kg	<0.1
Dieldrin	mg/kg	<0.1
Endrin	mg/kg	<0.1
pp-DDD	mg/kg	<0.1
Endosulfan II	mg/kg	<0.1
pp-DDT	mg/kg	<0.1
Endrin Aldehyde	mg/kg	<0.1
Endosulfan Sulphate	mg/kg	<0.1
Methoxychlor	mg/kg	<0.1
Surrogate TCMX	%	89

PCBs in Soil		
Our Reference:	UNITS	103630-1
Your Reference	----------	QC17-A
Date Sampled	----------	15/01/2014
Type of sample		soil
Date extracted	-	20/01/2014
Date analysed	-	22/01/2014
Arochlor 1016	mg/kg	<0.2
Arochlor 1221	mg/kg	<0.2
Arochlor 1232	mg/kg	<0.2
Arochlor 1242	mg/kg	<0.2
Arochlor 1248	mg/kg	<0.2
Arochlor 1254	mg/kg	<0.2
Arochlor 1260	mg/kg	<0.2
Surrogate TCLMX	%	89

Acid Extractable metals in soil		
Our Reference:	UNITS	103630-1
Your Reference	----------	QC17-A
Date Sampled	----------	15/01/2014
Type of sample		soil
Date digested	-	20/01/2014
Date analysed	-	20/01/2014
Arsenic	mg/kg	7
Cadmium	mg/kg	0.8
Chromium	mg/kg	25
Copper	mg/kg	140
Lead	mg/kg	410
Mercury	mg/kg	1.2
Nickel	mg/kg	12
Zinc	mg/kg	520

Moisture		
Our Reference:	UNITS	103630-1
Your Reference	----------	QC17-A
Date Sampled	----------	15/01/2014
Type of sample		soil
Date prepared	-	20/01/2014
Date analysed	-	21/01/2014
Moisture	%	17

Method ID	Methodology Summary
Org-016	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-014	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-003	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note Naphthalene is determined from the VOC analysis.
Org-012 subset	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.
Org-005	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.
Org-006	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.
Metals-020 ICP-AES	Determination of various metals by ICP-AES.
Metals-021 CV-AAS	Determination of Mercury by Cold Vapour AAS.
Inorg-008	Moisture content determined by heating at 105+/-5 deg C for a minimum of 12 hours.

QUALITY CONTROL vTRH(C6-C10)/BTEXN in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			20/01/2014	[NT]	[NT]	LCS-7	20/01/2014
Date analysed	-			22/01/2014	[NT]	[NT]	LCS-7	22/01/2014
TRHC6 - C9	mg/kg	25	Org-016	<25	[NT]	[NT]	LCS-7	79%
TRHC6 - C10	mg/kg	25	Org-016	<25	[NT]	[NT]	LCS-7	79%
Benzene	mg/kg	0.2	Org-016	<0.2	[NT]	[NT]	LCS-7	76%
Toluene	mg/kg	0.5	Org-016	<0.5	[NT]	[NT]	LCS-7	62%
Ethylbenzene	mg/kg	1	Org-016	<1	[NT]	[NT]	LCS-7	80%
m+p-xylene	mg/kg	2	Org-016	<2	[NT]	[NT]	LCS-7	88%
o-Xylene	mg/kg	1	Org-016	<1	[NT]	[NT]	LCS-7	87%
naphthalene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
Surrogate aaa-Trifluorotoluene	%		Org-016	109	[NT]	[NT]	LCS-7	94%
QUALITY CONTROL svTRH (C10-C40) in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			20/01/2014	[NT]	[NT]	LCS-7	20/01/2014
Date analysed	-			22/01/2014	[NT]	[NT]	LCS-7	22/01/2014
TRHC10 - C14	mg/kg	50	Org-003	<50	[NT]	[NT]	LCS-7	127%
TRHC15 - C28	mg/kg	100	Org-003	<100	[NT]	[NT]	LCS-7	106%
TRHC29 - C36	mg/kg	100	Org-003	<100	[NT]	[NT]	LCS-7	96%
TRH>C10-C16	mg/kg	50	Org-003	<50	[NT]	[NT]	LCS-7	127%
TRH>C16-C34	mg/kg	100	Org-003	<100	[NT]	[NT]	LCS-7	106%
TRH>C34-C40	mg/kg	100	Org-003	<100	[NT]	[NT]	LCS-7	96%
Surrogate o-Terphenyl	%		Org-003	90	[NT]	[NT]	LCS-7	104%
QUALITY CONTROL PAHs in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			20/01/2014	[NT]	[NT]	LCS-7	20/01/2014
Date analysed	-			22/01/2014	[NT]	[NT]	LCS-7	22/01/2014
Naphthalene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-7	102%
Acenaphthylene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Acenaphthene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Fluorene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-7	107%
Phenanthrene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-7	106%
Anthracene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Fluoranthene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-7	105%

QUALITY CONTROL PAHs in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base II Duplicate II %RPD	Spike Sm#	Spike % Recovery
Pyrene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-7	111%
Benzo(a)anthracene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Chrysene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-7	98%
Benzo(b+k)fluoranthene	mg/kg	0.2	Org-012 subset	<0.2	[NT]	[NT]	[NR]	[NR]
Benzo(a)pyrene	mg/kg	0.05	Org-012 subset	<0.05	[NT]	[NT]	LCS-7	112%
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Surrogate p-Terphenyl-d14	%		Org-012 subset	120	[NT]	[NT]	LCS-7	114%
QUALITY CONTROL Organochlorine Pesticides in soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base II Duplicate II %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			20/01/2014	[NT]	[NT]	LCS-7	20/01/2014
Date analysed	-			22/01/2014	[NT]	[NT]	LCS-7	22/01/2014
HCB	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
alpha-BHC	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-7	119%
gamma-BHC	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
beta-BHC	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-7	79%
Heptachlor	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-7	86%
delta-BHC	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
Aldrin	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-7	89%
Heptachlor Epoxide	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-7	105%
gamma-Chlordane	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
alpha-chlordane	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
Endosulfan I	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
pp-DDE	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-7	82%
Dieldrin	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-7	78%
Endrin	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-7	80%
pp-DDD	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-7	88%
Endosulfan II	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
pp-DDT	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
Endrin Aldehyde	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
Endosulfan Sulphate	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-7	94%
Methoxychlor	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
Surrogate TCMX	%		Org-005	89	[NT]	[NT]	LCS-7	90%

QUALITY CONTROL PCBs in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			20/01/2014	[NT]	[NT]	LCS-7	20/01/2014
Date analysed	-			22/01/2014	[NT]	[NT]	LCS-7	22/01/2014
Arochlor 1016	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1221	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1232	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1242	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1248	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1254	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	LCS-7	102%
Arochlor 1260	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Surrogate TCLMX	%		Org-006	89	[NT]	[NT]	LCS-7	91%
QUALITY CONTROL Acid Extractable metals in soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date digested	-			20/01/2014	[NT]	[NT]	LCS-11	20/01/2014
Date analysed	-			20/01/2014	[NT]	[NT]	LCS-11	20/01/2014
Arsenic	mg/kg	4	Metals-020 ICP-AES	<4	[NT]	[NT]	LCS-11	97%
Cadmium	mg/kg	0.4	Metals-020 ICP-AES	<0.4	[NT]	[NT]	LCS-11	102%
Chromium	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-11	103%
Copper	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-11	100%
Lead	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-11	99%
Mercury	mg/kg	0.1	Metals-021 CV-AAS	<0.1	[NT]	[NT]	LCS-11	100%
Nickel	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-11	100%
Zinc	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-11	102%

QUALITY CONTROL Moisture	UNITS	PQL	METHOD	Blank
Date prepared	-			[NT]
Date analysed	-			[NT]
Moisture	%	0.1	Inorg-008	[NT]

Report Comments:

PCB'S (IN SOIL) PQL has been raised due to interference from analytes(other than those being tested) in the sample/s.

Asbestos ID was analysed by Approved Identifier:	Not applicable for this job
Asbestos ID was authorised by Approved Signatory:	Not applicable for this job

INS: Insufficient sample for this test	PQL: Practical Quantitation Limit	NT: Not tested
NA: Test not required	RPD: Relative Percent Difference	NA: Test not required
<: Less than	>: Greater than	LCS: Laboratory Control Sample

Quality Control Definitions

Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

Duplicate: This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

Matrix Spike : A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

LCS (Laboratory Control Sample) : This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Surrogate Spike: Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.
Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.
Spikes for Physical and Aggregate Tests are not applicable.
For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.
Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for SVOC and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

12 Ashley Street
Chatswood
NSW 2067

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 47382
PROJECT NAME: Green Square Block 16 AB
SEND REPORT TO: N Cussen SEND INVOICE TO: G NJ
DATE NEEDED BY: STD AT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: Ellen
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: ncussen@jbsg.com.au

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	COMBO SUITES: SOIL - 4	SOIL – 4L	SOIL – 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER – 1m	WATER – 2L	WATER – 3L	NOTES:
QC17 – A (not received) (Kevin)	Soil	15.1.14		Jar + Ice					X							

ENVIROLAB
Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200
Job No: 103630
Date Received: 17/01
Time Received: 10:30
Received by: STS
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

RELINQUISHED BY:
NAME: Nathan DATE: 15.1.14
OF: JBS&G
NAME: DATE:
OF:

METHOD OF SHIPMENT:
CONSIGNMENT NOTE NO.
TRANSPORT CO.
CONSIGNMENT NOTE NO.
TRANSPORT CO

RECEIVED BY:
NAME: Kevin Wang
DATE: 16/1/14 17:00
OF: ENS
NAME: DATE:
OF:

FOR RECEIVING LAB USE ONLY:
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Envirolab

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

SAMPLE RECEIPT ADVICE

Client:

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney NSW 2000

ph: 02 8245 0300
Fax: 02 8245 0399

Attention: Nathan Cussen

Sample log in details:

Your reference:	**43182, Green Square Block 16AB**
Envirolab Reference:	**103617**
Date received:	16/01/14
Date results expected to be reported:	**23/01/14**

Samples received in appropriate condition for analysis:	YES
No. of samples provided	14 soil
Turnaround time requested:	Standard
Temperature on receipt (°C)	NA
Cooling Method:	None
Sampling Date Provided:	YES

Comments:

Samples will be held for 1 month for water samples and 2 months for soil samples from date of receipt of samples.

Contact details:

Please direct any queries to Aileen Hie or Jacinta Hurst
ph: 02 9910 6200 fax: 02 9910 6201
email: ahie@envirolabservices.com.au or jhurst@envirolabservices.com.au

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

CERTIFICATE OF ANALYSIS 103617

Client:

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention: Nathan Cussen

Sample log in details:

Your Reference:	**43182, Green Square Block 16AB**		
No. of samples:	14 soil		
Date samples received / completed instructions received	16/01/14	/	16/01/14

Analysis Details:

Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by: / Issue Date:	23/01/14	/	23/01/14
Date of Preliminary Report:	Not Issued		

NATA accreditation number 2901. This document shall not be reproduced except in full.
Accredited for compliance with ISO/IEC 17025. **Tests not covered by NATA are denoted with *.**

Results Approved By:

Jacinta Hurst
Laboratory Manager

Asbestos ID - soils WA						
Our Reference:	UNITS	103617-1	103617-4	103617-6	103617-7	103617-8
Your Reference	----------	FC017	FC018	FC020	FC019	FC021
Depth	----------	6.0-6.1	8.5-8.7	7.0-7.1	6.0-6.1	6.0-6.1
Date Sampled		15/01/2014	15/01/2014	15/01/2014	15/01/2014	15/01/2014
Type of sample		soil	soil	soil	soil	soil
Date analysed	-	23/01/2014	23/01/2014	23/01/2014	23/01/2014	23/01/2014
Sample mass tested	g	1029.56g	1085.22g	1074.56g	1217.25g	1080.84g
Sample Description	-	Dark grey fine-grained soil & rocks	Dark grey fine-grained soil & rocks	Dark grey fine-grained soil & rocks	Dark grey fine-grained soil & rocks	Dark grey fine-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected

Asbestos ID - soils WA					
Our Reference:	UNITS	103617-10	103617-11	103617-13	103617-14
Your Reference	----------	FC023	FC023	FC023	QC17
Depth	----------	8.5-8.7	6.0-6.1	8.5-8.7	-
Date Sampled		15/01/2014	15/01/2014	15/01/2014	15/01/2014
Type of sample		soil	soil	soil	soil
Date analysed	-	23/01/2014	23/01/2014	23/01/2014	23/01/2014
Sample mass tested	g	1111.94g	893.83g	789.18g	1014.62g
Sample Description	-	Dark grey fine-grained soil & rocks	Dark brown fine-grained soil & rocks	Dark brown fine-grained soil & rocks	Dark brown fine-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected

Method ID	Methodology Summary
ASB-003	Asbestos ID - Minimum 500mL soil sample was analysed as recommended by "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.1g/kg as per AS4964-2004.

Report Comments:

This report is consistent with the analytical procedures and reporting recommendations in the Western Australian Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009.

Asbestos ID was analysed by Approved Identifier:	Alex Tam
Asbestos ID was authorised by Approved Signatory:	Matt Mansfield

INS: Insufficient sample for this test	PQL: Practical Quantitation Limit	NT: Not tested
NA: Test not required	RPD: Relative Percent Difference	NA: Test not required
<: Less than	>: Greater than	LCS: Laboratory Control Sample

Quality Control Definitions

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Laboratory Acceptance Criteria

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Envirolab Services Pty Ltd
12 Ashley Street
Chatswood
NSW 2067

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 42182
PROJECT NAME: Green Square Block 16 AB
SEND REPORT TO: N Cussen SEND INVOICE TO: C Ng
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: Ellen
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: ncussen@jbsg.com.au
QC LEVEL: NEPM (2013)

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	COMBO SUITES: SOIL - 4	SOIL – 4L	SOIL – 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER – 1m	WATER – 2L	WATER – 3L	Asbestos	NOTES:
1	FC017 0.0 – 0.1	soil	15.1.14		Bag												x	
	~~FC017 7.0 – 7.1~~																	
2	FC018 0.0 – 0.1																	
3	FC018 7.0 – 7.1																	
4	FC018 8.5 – 8.7																	
5	FC020 0.0 – 0.1																x	
6	FC020 7.0 – 7.1																	
7	FC019 0.0 – 0.1																x	
8	FC021 0.0 – 0.1																x	
9	FC021 7.0 – 7.1																x	
10	FC021 8.5 – 8.7																x	
11	FC023 0.0 – 0.1																x	
12	FC023 7.0 – 7.1																x	
13	FC023 8.5 – 8.7																x	
14	QC17																x	
15	QC17 – A																x	

Please send to PaR

ENVIROLAB group
Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200
Job No: 183617
Date Received: 16/1/14
Time Received: 17:05
Received by: [signature]
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Nathan DATE: 16.01.14	CONSIGNMENT NOTE NO.	NAME: Keith Wong	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 16/1/14 17:00	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	OF: ENS NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Envirolab

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

Envirolab Services Pty Ltd
12 Ashley Street
Chatswood
NSW 2067

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square Block 16 A/B
SEND REPORT TO: N Cussins SEND INVOICE TO: G Ng
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: Chris B
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: nsussmeier@jbsg.com.au
QC LEVEL: NEPM (2013)

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	COMBO SUITES: SOIL - 4	SOIL – 4L	SOIL – 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER – 1m	WATER – 2L	WATER – 3L	Asbestos (Soil)	NOTES:
1	FC018 0.1 - 0.2	Soil	13/1/14		Bag												X	
2	FC018 0.8 - 1.0																	
3	FC018 1.5 - 1.7																X	
4	FC018 2.8 - 3.0																X	
5	FC018 4.1 - 4.3																X	
6	FC021 0.1 - 0.2																X	
7	FC021 0.8 - 1.0																X	
8	FC021 1.8 - 2.0																X	
9	FC021 2.9 - 3.1																	
10	FC021 4.3 - 4.5																X	
11	FC024 0.1 - 0.2																X	
12	FC024 0.5 - 0.7																X	
13	FC024 1.2 - 1.4																X	
14	FC024 2.8 - 3.0																X	
15	FC024 4.2 - 4.4																	
16	FC025 0.1 - 0.2																X	
17	FC025 0.8 - 1.0																X	
18	FC025 1.8 - 2.0																X	

ENVIROLAB GROUP
Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200
Job No: 103558
Date Received: 15/1/14
Time Received: 15:30
Received by: G
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Nathan DATE: 14 01 14	CONSIGNMENT NOTE NO.	NAME: Ben Ward	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 15/1/14	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	OF: GLS 15:30	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	NAME: DATE:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Envirolab

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

Envirolab Services Pty Ltd
12 Ashley Street
Chatswood
NSW 2067

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square Block 1C A/13
SEND REPORT TO: N Cussion SEND INVOICE TO: G Ng
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: Chris B
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: nwussien@jbsg.com.au
QC LEVEL: NEPM (2013)

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	COMBO SUITES: SOIL - 4	SOIL – 4L	SOIL – 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER – 1m	WATER – 2L	WATER – 3L	Asbestos (AS)	NOTES:
19	FC025 2.8 - 3.0	Soil	13/1/14		Bag													
20	FC025 4.1 - 4.3																X	
21	FC027 0.1 - 0.2																X	
22	FC027 0.8 - 1.0																	
23	FC027 1.8 - 2.0																X	
24	FC027 2.9 - 3.1																	
25	FC027 4.3 - 4.5																X	
26	FC028 0.1 - 0.2																X	
27	FC028 0.8 - 1.0																X	
28	FC028 1.8 - 2.0																	
29	FC028 2.8 - 3.0																	
30	FC028 4.1 - 4.3																X	
31	FC024 6.0 - 6.1		14.1.14															
32	FC025 5.4 - 5.6																X	
33	FC026 6.0 - 6.1																X	
34	FC026 7.0 - 7.1																	
35	FC027 6.0 - 6.1																X	
36	FC028 6.0 - 6.1																X	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Nathan DATE: 14 01 14	CONSIGNMENT NOTE NO.	NAME: Kevin Wang DATE: 15/1/14 15:30	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	OF: JBS	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

Envirolab Services Pty Ltd
12 Ashley Street
Chatswood
NSW 2067

Page 3 of 3

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 47182
PROJECT NAME: Green Square Block 16 A/B
SEND REPORT TO: N Cussen SEND INVOICE TO: G Ng
DATE NEEDED BY: STD TAT

LABORATORY BATCH NO.:
SAMPLERS: Chris / Ellen
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: ncussen@jbsg.com.au
QC LEVEL: NEPM (2013)

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	COMBO SUITES: SOIL - 4	SOIL – 4L	SOIL – 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER – 1m	WATER – 2L	WATER – 3L	Asbesto	NOTES:
37	FC028 7.0-7.1	Soil	14.1.14		Bag													
38	QC15	↓	↓		↓												x	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Nathan DATE: 14 01 14	CONSIGNMENT NOTE NO.	NAME: Kevin Wang DATE: 15/1/14	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	OF: JBS 15130.	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Envirolab

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

SAMPLE RECEIPT ADVICE

Client:

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney NSW 2000

ph: 02 8245 0300
Fax: 02 8245 0399

Attention: Nathan Cussen

Sample log in details:

Your reference:	**43182, Green Square Block 5A**
Envirolab Reference:	**103558**
Date received:	15/01/14
Date results expected to be reported:	**22/01/14**

Samples received in appropriate condition for analysis:	YES
No. of samples provided	38 soil
Turnaround time requested:	Standard
Temperature on receipt (°C)	NA
Cooling Method:	None
Sampling Date Provided:	YES

Comments:

Samples will be held for 1 month for water samples and 2 months for soil samples from date of receipt of samples.

Contact details:

Please direct any queries to Aileen Hie or Jacinta Hurst
ph: 02 9910 6200 fax: 02 9910 6201
email: ahie@envirolabservices.com.au or jhurst@envirolabservices.com.au

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

CERTIFICATE OF ANALYSIS 103558

Client:

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention: Nathan Cussen

Sample log in details:

Your Reference:	**43182, Green Square Block 5A**		
No. of samples:	38 soil		
Date samples received / completed instructions received	15/01/14	/	15/01/14

Analysis Details:

Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by: / Issue Date:	22/01/14	/	22/01/14
Date of Preliminary Report:	Not Issued		

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Accredited for compliance with ISO/IEC 17025. **Tests not covered by NATA are denoted with *.**

Results Approved By:

Jacinta Hurst
Laboratory Manager

Asbestos ID - soils WA						
Our Reference:	UNITS	103558-1	103558-3	103558-4	103558-5	103558-6
Your Reference	----------	FC018	FC018	FC018	FC018	FC021
Depth	----------	0.1-0.2	1.5-1.7	2.8-3.0	4.1-4.3	0.1-0.2
Date Sampled		13/01/2014	13/01/2014	13/01/2014	13/01/2014	13/01/2014
Type of sample		soil	soil	soil	soil	soil
Date analysed	-	22/01/2014	22/01/2014	22/01/2014	22/01/2014	22/01/2014
Sample mass tested	g	1014.77g	872.58g	803.17	888.49g	893.99g
Sample Description	-	Brown fine-grained soil & rocks	Brown fine-grained soil & rocks	Brown fine-grained soil & rocks	Brown fine-grained soil & rocks	Brown fine-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected

Asbestos ID - soils WA						
Our Reference:	UNITS	103558-7	103558-9	103558-10	103558-11	103558-12
Your Reference	----------	FC021	FC021	FC021	FC024	FC024
Depth	----------	0.8-1.0	2.9-3.1	4.3-4.5	0.1-0.2	0.5-0.7
Date Sampled		13/01/2014	13/01/2014	13/01/2014	13/01/2014	13/01/2014
Type of sample		soil	soil	soil	soil	soil
Date analysed	-	22/01/2014	22/01/2014	22/01/2014	22/01/2014	22/01/2014
Sample mass tested	g	928.81g	349.29g	986.96g	803.78g	883.06g
Sample Description	-	Brown fine-grained soil & rocks	Brown coarse-grained soil & rocks	Brown fine-grained soil & rocks	Brown coarse-grained soil & rocks	Brown fine-grained soil & rocks
Asbestos ID in soil	-	Chrysotile asbestos detected Crocidolite asbestos detected	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected

Asbestos ID - soils WA						
Our Reference:	UNITS	103558-13	103558-15	103558-16	103558-18	103558-20
Your Reference	----------	FC024	FC024	FC025	FC025	FC025
Depth	----------	1.2-1.4	4.2-4.4	0.1-0.2	1.8-2.0	4.1-4.3
Date Sampled		13/01/2014	13/01/2014	13/01/2014	13/01/2014	13/01/2014
Type of sample		soil	soil	soil	soil	soil
Date analysed	-	22/01/2014	22/01/2014	22/01/2014	22/01/2014	22/01/2014
Sample mass tested	g	717.27g	834.19g	1069.36g	1040.75g	964.11g
Sample Description	-	Brown fine-grained soil & rocks	Brown coarse-grained & rocks	Brown coarse-grained soil & rocks	Grey coarse-grained soil & rocks	Brown fine-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected

Asbestos ID - soils WA						
Our Reference:	UNITS	103558-21	103558-23	103558-25	103558-26	103558-27
Your Reference	----------	FC027	FC027	FC027	FC028	FC028
Depth	----------	0.1-0.2	1.8-2.0	4.3-4.5	0.1-0.2	0.8-1.0
Date Sampled		13/01/2014	13/01/2014	13/01/2014	13/01/2014	13/01/2014
Type of sample		soil	soil	soil	soil	soil
Date analysed	-	22/01/2014	22/01/2014	22/01/2014	22/01/2014	22/01/2014
Sample mass tested	g	859.02g	809.13g	936.42g	1035.22g	473.91g
Sample Description	-	Brown fine-grained soil & rocks	Brown coarse-grained sandy soil	Brown coarse-grained sandy soil	Brown fine-grained soil & rocks	Brown coarse-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	Chrysotile asbestos detected Amosite asbestos detected	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected

Asbestos ID - soils WA						
Our Reference:	UNITS	103558-29	103558-31	103558-32	103558-34	103558-35
Your Reference	----------	FC028	FC024	FC025	FC026	FC027
Depth	----------	2.8-3.0	6.0-6.1	5.4-5.6	7.0-7.1	6.0-6.1
Date Sampled		13/01/2014	14/01/2014	14/01/2014	14/01/2014	14/01/2014
Type of sample		soil	soil	soil	soil	soil
Date analysed	-	22/01/2014	22/01/2014	22/01/2014	22/01/2014	22/01/2014
Sample mass tested	g	1050.19g	1065.80g	835.58g	1029.28g	931.11g
Sample Description	-	Brown fine-grained soil & rocks	Brown fine-grained soil & rocks	Brown fine-grained soil & rocks	Brown fine-grained soil & rocks	Brown fine-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected

Asbestos ID - soils WA			
Our Reference:	UNITS	103558-36	103558-38
Your Reference	----------	FC028	QC15
Depth	----------	6.0-6.1	-
Date Sampled		14/01/2014	14/01/2014
Type of sample		soil	soil
Date analysed	-	22/01/2014	22/01/2014
Sample mass tested	g	1001.72g	838.14g
Sample Description	-	Brown fine-grained soil & rocks	Brown fine-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected	No respirable fibres detected

Method ID	Methodology Summary
ASB-003	Asbestos ID - Minimum 500mL soil sample was analysed as recommended by "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.1g/kg as per AS4964-2004.

Report Comments:

This report is consistent with the analytical procedures and reporting recommendations in the Western Australian Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009.

Sample 103558-4; Loose fibre bundles of Chrysotile asbestos identified within the sample (total weight 0.0752g). This is 100% asbestos fibres by weight, within the sample (total weight 803.17g), which is calculated as less than the reporting limit for the method (i.e. < 0.1g/kg).

Sample 103558-7; Chrysotile & Crocidolite asbestos identified embedded in a fragment of fibre cement (total weight 0.7030g). It is estimated that the fibre cement contains up to 15% asbestos fibres by weight. This calculates to 0.1055g of asbestos fibres, which in 928.81g of soil is 0.11g/kg (i.e. > reporting limit for the method of 0.1g/kg).

Sample 103558-15; Chrysotile asbestos identified embedded in several fragments of fibre cement (total weight 0.0355g). It is estimated that the fibre cement contains up to (15%) asbestos fibres by weight. This calculates to 0.0053g of asbestos fibres, which in 834.19g of soil is is calculated as less than the reporting limit for the method (i.e. < 0.1g/kg).

Sample 103558-20; Loose fibre bundles of Chrysotile asbestos identified within the sample (total weight 0.0468g). This is 100% asbestos fibres by weight, within the sample (total weight 964.11g), which is calculated as less than the reporting limit for the method (i.e. < 0.1g/kg).

Sample 103558-21; Loose fibre bundles of Chrysotile asbestos identified within the sample (total weight 0.0008g). This is 100% asbestos fibres by weight, within the sample (total weight 859.02g), which is calculated as less than the reporting limit for the method (i.e. < 0.1g/kg).

Sample 103558-23; Chrysotile & Amosite asbestos identified in matted material (total weight 1.7380g). It is estimated that the matted material contains up to (75%) asbestos fibres by weight. This calculates to 1.3035g of asbestos fibres, which in 809.13g of soil is 1.61g/kg (i.e. > reporting limit for the method of 0.1g/kg).

Asbestos ID was analysed by Approved Identifier: Alex Tam
Asbestos ID was authorised by Approved Signatory: Matt Mansfield

INS: Insufficient sample for this test
NA: Test not required
<: Less than

PQL: Practical Quantitation Limit
RPD: Relative Percent Difference
>: Greater than

NT: Not tested
NA: Test not required
LCS: Laboratory Control Sample

Quality Control Definitions

Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

Duplicate: This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

Matrix Spike : A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

LCS (Laboratory Control Sample) : This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Surrogate Spike: Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Envirolab Services Pty Ltd
12 Ashley Street
Chatswood
NSW 2067

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square Block 16 A/B
SEND REPORT TO: N Cussins SEND INVOICE TO: G Ng
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: Chris B
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: nsussmeier@jbsg.com.au
QC LEVEL: NEPM (2013)

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	COMBO SUITES: SOIL - 4	SOIL – 4L	SOIL – 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER – 1m	WATER – 2L	WATER – 3L	Asbestos (Soil)	NOTES:
1	FC018 0.1 - 0.2	Soil	13/1/14		Bag												X	
2	FC018 0.8 - 1.0																	
3	FC018 1.5 - 1.7																X	
4	FC018 2.8 - 3.0																X	
5	FC018 4.1 - 4.3																X	
6	FC021 0.1 - 0.2																X	
7	FC021 0.8 - 1.0																X	
8	FC021 1.8 - 2.0																X	
9	FC021 2.9 - 3.1																	
10	FC021 4.3 - 4.5																X	
11	FC024 0.1 - 0.2																X	
12	FC024 0.5 - 0.7																X	
13	FC024 1.2 - 1.4																X	
14	FC024 2.8 - 3.0																X	
15	FC024 4.2 - 4.4																	
16	FC025 0.1 - 0.2																X	
17	FC025 0.8 - 1.0																X	
18	FC025 1.8 - 2.0																X	

ENVIROLAB GROUP
Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200
Job No: 103558
Date Received: 15/1/14
Time Received: 15:30
Received by: G
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Nathan DATE: 14 01 14	CONSIGNMENT NOTE NO.	NAME: Ben Ward	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 15/1/14	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	OF: GLS 15:30	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	NAME: DATE:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Envirolab

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

Envirolab Services Pty Ltd
12 Ashley Street
Chatswood
NSW 2067

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square Block 1C A/13
SEND REPORT TO: N Cussion SEND INVOICE TO: G Ng
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: Chris B
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: nwussien@jbsg.com.au
QC LEVEL: NEPM (2013)

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	COMBO SUITES: SOIL - 4	SOIL – 4L	SOIL – 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER – 1m	WATER – 2L	WATER – 3L	Asbestos (AS)	NOTES:
19	FC025 2.8 - 3.0	Soil	13/1/14		Bag													
20	FC025 4.1 - 4.3																X	
21	FC027 0.1 - 0.2																X	
22	FC027 0.8 - 1.0																	
23	FC027 1.8 - 2.0																X	
24	FC027 2.9 - 3.1																	
25	FC027 4.3 - 4.5																X	
26	FC028 0.1 - 0.2																X	
27	FC028 0.8 - 1.0																X	
28	FC028 1.8 - 2.0																	
29	FC028 2.8 - 3.0																	
30	FC028 4.1 - 4.3																X	
31	FC024 6.0 - 6.1		14.1.14															
32	FC025 5.4 - 5.6																X	
33	FC026 6.0 - 6.1																X	
34	FC026 7.0 - 7.1																	
35	FC027 6.0 - 6.1																X	
36	FC028 6.0 - 6.1																X	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Nathan DATE: 14 01 14	CONSIGNMENT NOTE NO.	NAME: Kevin Wang DATE: 15/1/14 15:30	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	OF: JBS	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

Envirolab Services Pty Ltd
12 Ashley Street
Chatswood
NSW 2067

Page 3 of 3

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 47182
PROJECT NAME: Green Square Block 16 A/B
SEND REPORT TO: N Cussen SEND INVOICE TO: G Ng
DATE NEEDED BY: STD TAT

LABORATORY BATCH NO.:
SAMPLERS: Chris / Ellen
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: ncussen@jbsg.com.au
QC LEVEL: NEPM (2013)

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	COMBO SUITES: SOIL - 4	SOIL – 4L	SOIL – 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER – 1m	WATER – 2L	WATER – 3L	Asbesto	NOTES:
37	FC028 7.0-7.1	Soil	14.1.14		Bag													
38	QC15	↓	↓		↓												x	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Nathan DATE: 14 01 14	CONSIGNMENT NOTE NO.	NAME: Kevin Wang DATE: 15/1/14	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	OF: JBS 15130.	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Envirolab

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

SAMPLE RECEIPT ADVICE

Client:

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney NSW 2000

ph: 02 8245 0300
Fax: 02 8245 0399

Attention: Nathan Cussen

Sample log in details:

Your reference:	**43182, Green Square Block 16 A/B**
Envirolab Reference:	**103546**
Date received:	15/01/14
Date results expected to be reported:	**22/01/14**

Samples received in appropriate condition for analysis:	YES
No. of samples provided	1 soil
Turnaround time requested:	Standard
Temperature on receipt (°C)	NA
Cooling Method:	None
Sampling Date Provided:	YES

Comments:

Samples will be held for 1 month for water samples and 2 months for soil samples from date of receipt of samples.

Contact details:

Please direct any queries to Aileen Hie or Jacinta Hurst
ph: 02 9910 6200 fax: 02 9910 6201
email: ahie@envirolabservices.com.au or jhurst@envirolabservices.com.au

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

CERTIFICATE OF ANALYSIS 103546

Client:
JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention: Nathan Cussen

Sample log in details:

Your Reference:	**43182, Green Square Block 16 A/B**
No. of samples:	1 soil
Date samples received / completed instructions received	15/01/14 / 15/01/14

Analysis Details:
Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by: / Issue Date:	22/01/14 / 20/01/14
Date of Preliminary Report:	Not issued

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Accredited for compliance with ISO/IEC 17025. **Tests not covered by NATA are denoted with *.**

Results Approved By:

Jacinta Hurst
Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil		
Our Reference:	UNITS	103546-1
Your Reference	----------	QC15-A
Date Sampled	----------	14/01/2014
Type of sample		soil
Date extracted	-	16/01/2014
Date analysed	-	17/01/2014
TRHC$_6$ - C$_9$	mg/kg	<25
TRHC$_6$ - C$_{10}$	mg/kg	<25
vTPHC$_6$ - C$_{10}$ less BTEX (F1)	mg/kg	<25
Benzene	mg/kg	<0.2
Toluene	mg/kg	<0.5
Ethylbenzene	mg/kg	<1
m+p-xylene	mg/kg	<2
o-Xylene	mg/kg	<1
naphthalene	mg/kg	<1
Surrogate aaa-Trifluorotoluene	%	99

svTRH (C10-C40) in Soil		
Our Reference:	UNITS	103546-1
Your Reference	----------	QC15-A
Date Sampled	----------	14/01/2014
Type of sample		soil
Date extracted	-	16/01/2014
Date analysed	-	16/01/2014
TRHC$_{10}$ - C$_{14}$	mg/kg	<50
TRHC$_{15}$ - C$_{28}$	mg/kg	<100
TRHC$_{29}$ - C$_{36}$	mg/kg	<100
TRH>C$_{10}$-C$_{16}$	mg/kg	<50
TRH>C$_{10}$ - C$_{16}$ less Naphthalene (F2)	mg/kg	<50
TRH>C$_{16}$-C$_{34}$	mg/kg	<100
TRH>C$_{34}$-C$_{40}$	mg/kg	<100
Surrogate o-Terphenyl	%	95

PAHs in Soil		
Our Reference:	UNITS	103546-1
Your Reference	----------	QC15-A
Date Sampled	----------	14/01/2014
Type of sample		soil
Date extracted	-	16/01/2014
Date analysed	-	17/01/2014
Naphthalene	mg/kg	<0.1
Acenaphthylene	mg/kg	<0.1
Acenaphthene	mg/kg	<0.1
Fluorene	mg/kg	<0.1
Phenanthrene	mg/kg	0.5
Anthracene	mg/kg	0.1
Fluoranthene	mg/kg	0.9
Pyrene	mg/kg	1
Benzo(a)anthracene	mg/kg	0.5
Chrysene	mg/kg	0.5
Benzo(b+k)fluoranthene	mg/kg	0.9
Benzo(a)pyrene	mg/kg	0.63
Indeno(1,2,3-c,d)pyrene	mg/kg	0.4
Dibenzo(a,h)anthracene	mg/kg	<0.1
Benzo(g,h,i)perylene	mg/kg	0.3
Benzo(a)pyrene TEQ NEPM B1	mg/kg	1
Total +ve PAH's	mg/kg	5.8
Surrogate p-Terphenyl-d14	%	96

Organochlorine Pesticides in soil		
Our Reference:	UNITS	103546-1
Your Reference	----------	QC15-A
Date Sampled	----------	14/01/2014
Type of sample		soil
Date extracted	-	16/01/2014
Date analysed	-	17/01/2014
HCB	mg/kg	<0.1
alpha-BHC	mg/kg	<0.1
gamma-BHC	mg/kg	<0.1
beta-BHC	mg/kg	<0.1
Heptachlor	mg/kg	<0.1
delta-BHC	mg/kg	<0.1
Aldrin	mg/kg	<0.1
Heptachlor Epoxide	mg/kg	<0.1
gamma-Chlordane	mg/kg	<0.1
alpha-chlordane	mg/kg	<0.1
Endosulfan I	mg/kg	<0.1
pp-DDE	mg/kg	<0.1
Dieldrin	mg/kg	<0.1
Endrin	mg/kg	<0.1
pp-DDD	mg/kg	<0.1
Endosulfan II	mg/kg	<0.1
pp-DDT	mg/kg	<0.1
Endrin Aldehyde	mg/kg	<0.1
Endosulfan Sulphate	mg/kg	<0.1
Methoxychlor	mg/kg	<0.1
Surrogate TCMX	%	96

PCBs in Soil		
Our Reference:	UNITS	103546-1
Your Reference	----------	QC15-A
Date Sampled	----------	14/01/2014
Type of sample		soil
Date extracted	-	16/01/2014
Date analysed	-	17/01/2014
Arochlor 1016	mg/kg	<0.1
Arochlor 1221	mg/kg	<0.1
Arochlor 1232	mg/kg	<0.1
Arochlor 1242	mg/kg	<0.1
Arochlor 1248	mg/kg	<0.1
Arochlor 1254	mg/kg	<0.1
Arochlor 1260	mg/kg	<0.1
Surrogate TCLMX	%	96

Acid Extractable metals in soil		
Our Reference:	UNITS	103546-1
Your Reference	----------	QC15-A
Date Sampled	----------	14/01/2014
Type of sample		soil
Date digested	-	16/01/2014
Date analysed	-	16/01/2014
Arsenic	mg/kg	5
Cadmium	mg/kg	<0.4
Chromium	mg/kg	82
Copper	mg/kg	40
Lead	mg/kg	200
Mercury	mg/kg	0.6
Nickel	mg/kg	5
Zinc	mg/kg	160

Moisture		
Our Reference:	UNITS	103546-1
Your Reference	----------	QC15-A
Date Sampled	----------	14/01/2014
Type of sample		soil
Date prepared	-	16/01/2014
Date analysed	-	17/01/2014
Moisture	%	9.7

Method ID	Methodology Summary
Org-016	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-014	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-003	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note Naphthalene is determined from the VOC analysis.
Org-012 subset	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.
Org-005	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.
Org-006	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.
Metals-020 ICP-AES	Determination of various metals by ICP-AES.
Metals-021 CV-AAS	Determination of Mercury by Cold Vapour AAS.
Inorg-008	Moisture content determined by heating at 105+/-5 deg C for a minimum of 12 hours.

QUALITY CONTROL vTRH(C6-C10)/BTEXN in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base II Duplicate II %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			16/01/2014	[NT]	[NT]	LCS-1	16/01/2014
Date analysed	-			16/01/2014	[NT]	[NT]	LCS-1	17/01/2014
TRHC$_6$ - C$_9$	mg/kg	25	Org-016	<25	[NT]	[NT]	LCS-1	107%
TRHC$_6$ - C$_{10}$	mg/kg	25	Org-016	<25	[NT]	[NT]	LCS-1	107%
Benzene	mg/kg	0.2	Org-016	<0.2	[NT]	[NT]	LCS-1	95%
Toluene	mg/kg	0.5	Org-016	<0.5	[NT]	[NT]	LCS-1	105%
Ethylbenzene	mg/kg	1	Org-016	<1	[NT]	[NT]	LCS-1	109%
m+p-xylene	mg/kg	2	Org-016	<2	[NT]	[NT]	LCS-1	111%
o-Xylene	mg/kg	1	Org-016	<1	[NT]	[NT]	LCS-1	114%
naphthalene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
Surrogate aaa-Trifluorotoluene	%		Org-016	99	[NT]	[NT]	LCS-1	97%
QUALITY CONTROL svTRH (C10-C40) in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base II Duplicate II %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			16/01/2014	[NT]	[NT]	LCS-1	16/01/2014
Date analysed	-			16/01/2014	[NT]	[NT]	LCS-1	16/01/2014
TRHC$_{10}$ - C$_{14}$	mg/kg	50	Org-003	<50	[NT]	[NT]	LCS-1	125%
TRHC$_{15}$ - C$_{28}$	mg/kg	100	Org-003	<100	[NT]	[NT]	LCS-1	101%
TRHC$_{29}$ - C$_{36}$	mg/kg	100	Org-003	<100	[NT]	[NT]	LCS-1	92%
TRH>C$_{10}$-C$_{16}$	mg/kg	50	Org-003	<50	[NT]	[NT]	LCS-1	125%
TRH>C$_{16}$-C$_{34}$	mg/kg	100	Org-003	<100	[NT]	[NT]	LCS-1	101%
TRH>C$_{34}$-C$_{40}$	mg/kg	100	Org-003	<100	[NT]	[NT]	LCS-1	92%
Surrogate o-Terphenyl	%		Org-003	93	[NT]	[NT]	LCS-1	102%
QUALITY CONTROL PAHs in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base II Duplicate II %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			16/01/2014	[NT]	[NT]	LCS-1	16/01/2014
Date analysed	-			17/01/2014	[NT]	[NT]	LCS-1	17/01/2014
Naphthalene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-1	105%
Acenaphthylene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Acenaphthene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Fluorene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-1	105%
Phenanthrene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-1	102%
Anthracene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Fluoranthene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-1	98%

QUALITY CONTROL PAHs in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base II Duplicate II %RPD	Spike Sm#	Spike % Recovery
Pyrene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-1	105%
Benzo(a)anthracene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Chrysene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-1	99%
Benzo(b+k)fluoranthene	mg/kg	0.2	Org-012 subset	<0.2	[NT]	[NT]	[NR]	[NR]
Benzo(a)pyrene	mg/kg	0.05	Org-012 subset	<0.05	[NT]	[NT]	LCS-1	110%
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Surrogate p-Terphenyl-d14	%		Org-012 subset	97	[NT]	[NT]	LCS-1	101%
QUALITY CONTROL Organochlorine Pesticides in soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base II Duplicate II %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			16/01/2014	[NT]	[NT]	LCS-1	16/01/2014
Date analysed	-			17/01/2014	[NT]	[NT]	LCS-1	17/01/2014
HCB	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
alpha-BHC	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-1	114%
gamma-BHC	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
beta-BHC	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-1	110%
Heptachlor	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-1	116%
delta-BHC	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
Aldrin	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-1	119%
Heptachlor Epoxide	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-1	116%
gamma-Chlordane	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
alpha-chlordane	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
Endosulfan I	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
pp-DDE	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-1	123%
Dieldrin	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-1	117%
Endrin	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-1	108%
pp-DDD	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-1	112%
Endosulfan II	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
pp-DDT	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
Endrin Aldehyde	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
Endosulfan Sulphate	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-1	110%
Methoxychlor	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
Surrogate TCMX	%		Org-005	96	[NT]	[NT]	LCS-1	98%

QUALITY CONTROL PCBs in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			16/01/2014	[NT]	[NT]	LCS-1	16/01/2014
Date analysed	-			17/01/2014	[NT]	[NT]	LCS-1	17/01/2014
Arochlor 1016	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1221	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1232	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1242	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1248	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1254	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	LCS-1	88%
Arochlor 1260	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Surrogate TCLMX	%		Org-006	96	[NT]	[NT]	LCS-1	94%
QUALITY CONTROL Acid Extractable metals in soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date digested	-			16/01/2014	[NT]	[NT]	LCS-8	16/01/2014
Date analysed	-			16/01/2014	[NT]	[NT]	LCS-8	16/01/2014
Arsenic	mg/kg	4	Metals-020 ICP-AES	<4	[NT]	[NT]	LCS-8	95%
Cadmium	mg/kg	0.4	Metals-020 ICP-AES	<0.4	[NT]	[NT]	LCS-8	99%
Chromium	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-8	101%
Copper	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-8	99%
Lead	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-8	97%
Mercury	mg/kg	0.1	Metals-021 CV-AAS	<0.1	[NT]	[NT]	LCS-8	99%
Nickel	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-8	99%
Zinc	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-8	98%

QUALITY CONTROL Moisture	UNITS	PQL	METHOD	Blank
Date prepared	-			[NT]
Date analysed	-			[NT]
Moisture	%	0.1	Inorg-008	[NT]

Report Comments:

Asbestos ID was analysed by Approved Identifier:	Not applicable for this job
Asbestos ID was authorised by Approved Signatory:	Not applicable for this job

INS: Insufficient sample for this test	PQL: Practical Quantitation Limit	NT: Not tested
NA: Test not required	RPD: Relative Percent Difference	NA: Test not required
<: Less than	>: Greater than	LCS: Laboratory Control Sample

Quality Control Definitions

Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

Duplicate: This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

Matrix Spike : A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

LCS (Laboratory Control Sample) : This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Surrogate Spike: Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.
Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.
Spikes for Physical and Aggregate Tests are not applicable.
For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.
Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for SVOC and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Envirolab Services Pty Ltd
12 Ashley Street
Chatswood
NSW 2067

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square Block 16 A/B
SEND REPORT TO: N Cussen SEND INVOICE TO: G Ny
DATE NEEDED BY: STD TAT

LABORATORY BATCH NO.:
SAMPLERS: Chris / Ethan
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: ncussen@jbsg.com.au
QC LEVEL: NEPM (2013)

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	COMBO SUITES: SOIL - 4	SOIL – 4L	SOIL – 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER – 1m	WATER – 2L	WATER – 3L	NOTES:
1	QC15-A	soil	14.1.14		Jar + Ice					X							

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 13546
Date Received: 15/01
Time Received: 15:30
Received by: SS
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Nathan DATE: 14.1.14 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: Sophie DATE: OF: ES	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C
NAME: DATE: OF:	CONSIGNMENT NOTE NO. TRANSPORT CO	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Envirolab

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

SAMPLE RECEIPT ADVICE

Client:

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney NSW 2000

ph: 02 8245 0300
Fax: 02 8245 0399

Attention: Joanne Rosner, Nathan Cussen

Sample log in details:

Your reference:	**43182, Green Square Block 16A/B**
Envirolab Reference:	**103464**
Date received:	14/01/14
Date results expected to be reported:	**21/01/14**

Samples received in appropriate condition for analysis:	YES
No. of samples provided	39 soils
Turnaround time requested:	Standard
Temperature on receipt (°C)	NA
Cooling Method:	None
Sampling Date Provided:	YES

Comments:

Samples will be held for 1 month for water samples and 2 months for soil samples from date of receipt of samples.

Contact details:

Please direct any queries to Aileen Hie or Jacinta Hurst
ph: 02 9910 6200 fax: 02 9910 6201
email: ahie@envirolabservices.com.au or jhurst@envirolabservices.com.au

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

CERTIFICATE OF ANALYSIS 103464

Client:
JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention: Joanne Rosner, Nathan Cussen

Sample log in details:

Your Reference:	**43182, Green Square Block 16A/B**
No. of samples:	39 soils
Date samples received / completed instructions received	14/01/14 / 14/01/14

Analysis Details:
Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by: / Issue Date:	21/01/14 / 17/01/14
Date of Preliminary Report:	Not Issued

NATA accreditation number 2901. This document shall not be reproduced except in full.
Accredited for compliance with ISO/IEC 17025. **Tests not covered by NATA are denoted with *.**

Results Approved By:

Jacinta Hurst
Laboratory Manager

Asbestos ID - soils WA						
Our Reference:	UNITS	103464-1	103464-3	103464-5	103464-6	103464-7
Your Reference	----------	FC016	FC016	FC016	QC06	FC017
Depth	----------	0.2-0.3	1.8-2.0	3.8-4.0	-	0.1-0.2
Date Sampled		10/01/2014	10/01/2014	10/01/2014	10/01/2014	10/01/2014
Type of sample		soil	soil	soil	soil	soil
Date analysed	-	16/01/2014	16/01/2014	16/01/2014	16/01/2014	16/01/2014
Sample mass tested	g	786.62g	672.69g	627.96g	801.86g	808.22g
Sample Description	-	Grey coarse-grained soil & rocks	Grey coarse-grained soil	Grey coarse-grained soil	Grey coarse-grained soil	Grey-beige fine-grained soil
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected

Asbestos ID - soils WA						
Our Reference:	UNITS	103464-9	103464-10	103464-13	103464-15	103464-17
Your Reference	----------	FC017	FC017	FC019	FC019	FC019
Depth	----------	1.2-1.4	1.8-2.0	0.2-0.3	1.0-1.2	3.5-3.7
Date Sampled		10/01/2014	10/01/2014	10/01/2014	10/01/2014	10/01/2014
Type of sample		soil	soil	soil	soil	soil
Date analysed	-	16/01/2014	16/01/2014	16/01/2014	16/01/2014	16/01/2014
Sample mass tested	g	897.58g	707.87g	779.15g	647.57g	689.30g
Sample Description	-	Beige fine-grained soil	Grey-beige fine-grained soil	Grey fine-grained soil & rocks	Grey coarse-grained soil	Grey coarse-grained soil
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected

Asbestos ID - soils WA						
Our Reference:	UNITS	103464-19	103464-21	103464-26	103464-28	103464-30
Your Reference	----------	FC019	FC020	FC022	FC022	FC023
Depth	----------	0.2-0.3	1.0-1.2	0.4-0.6	3.5-3.7	0.2-0.3
Date Sampled		10/01/2014	10/01/2014	10/01/2014	10/01/2014	10/01/2014
Type of sample		soil	soil	soil	soil	soil
Date analysed	-	16/01/2014	16/01/2014	16/01/2014	16/01/2014	16/01/2014
Sample mass tested	g	774.44g	655.68g	739.53g	714.81g	725.60g
Sample Description	-	Grey fine-grained soil & rocks	Grey coarse-grained & rocks	Grey coarse-grained soil	Grey coarse-grained & rocks	Grey fine-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	Chrysotile asbestos detected
Trace Analysis	-	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected

Asbestos ID - soils WA				
Our Reference:	UNITS	103464-34	103464-35	103464-37
Your Reference	----------	FC023	FC026	FC026
Depth	----------	4.5-4.7	0.2-0.3	1.8-2.0
Date Sampled		10/01/2014	10/01/2014	10/01/2014
Type of sample		soil	soil	soil
Date analysed	-	16/01/2014	16/01/2014	16/01/2014
Sample mass tested	g	663.66g	772.71g	557.06g
Sample Description	-	Grey coarse-grained soil	Grey-beige fine-grained soil & rocks	Beige-red coarse-grained & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected

Method ID	Methodology Summary
ASB-003	Asbestos ID - Minimum 500mL soil sample was analysed as recommended by "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.1g/kg as per AS4964-2004.

Report Comments:

This report is consistent with the analytical procedures and reporting recommendations in the Western Australian Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009.

Sample 103464-13; Chrysotile asbestos identified in matted material (total weight 0.0125g). It is estimated that the matted material contains up to 70% asbestos fibres by weight. This calculates to 0.0088g of asbestos fibres, which in 779.15g of soil is 0.01g/kg (i.e. < reporting limit for the method of 0.1g/kg).

Sample 103464-30; Chrysotile asbestos identified embedded in a fragment of fibre cement (total weight 5.0082g). It is estimated that the fibre cement contains up to 15% asbestos fibres by weight. This calculates to 0.7512g of asbestos fibres, which in 725.60g of soil is 1.04g/kg (i.e. > reporting limit for the method of 0.1g/kg).

Asbestos ID was analysed by Approved Identifier:	Paul Ching
Asbestos ID was authorised by Approved Signatory:	Paul Ching

INS: Insufficient sample for this test	PQL: Practical Quantitation Limit	NT: Not tested
NA: Test not required	RPD: Relative Percent Difference	NA: Test not required
<: Less than	>: Greater than	LCS: Laboratory Control Sample

Quality Control Definitions

Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

Duplicate: This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

Matrix Spike : A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

LCS (Laboratory Control Sample) : This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Surrogate Spike: Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.
Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.
Spikes for Physical and Aggregate Tests are not applicable.
For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.
Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for SVOC and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as

Envirolab Services Pty Ltd
12 Ashley Street
Chatswood
NSW 2067

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square Block 16A/B
SEND REPORT TO: N Cusson SEND INVOICE TO: E Ng
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: EB
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: ncusson@jbsg.com.au

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	COMBO SUITES: SOIL-4	SOIL-4L	SOIL-4A	SOIL-5	SOIL 5A	SOIL 5B	SOIL-12	WATER-1m	WATER-2L	WATER-3L	Asbestos 4/1	NOTES:
1	FC016 – 0.2 – 0.3	Soil	10/1/14		Bag 500 ~1													
2	FC016 1.0 – 1.2																X	
3	FC016 1.8 – 2.0																	
4	FC016 2.8 – 3.0																X	
5	FC016 3.8 – 4.0																	
6	QC06																X	
7	QC06 – A																X	
8	FC017 0.1 – 0.2						Please send to Pth											
9	FC017 0.5 – 0.7																X	
10	FC017 1.2 – 1.4																	
11	FC017 1.8 – 2.0																X	
12	FC017 2.8 – 3.0																X	
13	FC017 4.8 – 5.0																	
14	FC014 0.2 – 0.3																	
15	FC019 0.5 – 0.7																X	
16	FC019 1.0 – 1.2																	
17	FC014 1.8 – 2.0																X	
	FC019 3.5 – 3.7																X	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Nathan DATE: 10/1/14	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE:	
NAME: DATE:	CONSIGNMENT NOTE NO.	OF:	COOLER TEMP ..... deg C
OF:	TRANSPORT CO	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
		OF:	COOLER TEMP ..... deg C

Envirolab Services
12 Ashley St
Chatswood NSW 2067

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Envirolab

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

103464
Date Received: 14/1/14
Time Received: 9.00
Received by:
Temp: Cool/Ambient
Cooling: Ice/icepack
Security: Intact/Broken/None

Envirolab Services Pty Ltd
12 Ashley Street
Chatswood
NSW 2067

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square Block 16 A/B
SEND REPORT TO: N Cusson SEND INVOICE TO: C Ng
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: Chris
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: ncusson@jbsg.com.a
QC LEVEL: NEPM (2013)

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	COMBO SUITES: SOIL - 4	SOIL – 4L	SOIL – 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER – 1m	WATER – 2L	WATER – 3L	Asbestos Dry +	NOTES:
18	FC019 4.5 - 4.7	Soil	10/1/14		B-J 500 N													
19	FC020 0.2 - 0.3																	
20	FC020 0.5 - 0.7															X		
21	FC020 1.0 - 1.2																	
22	FC020 1.8 - 2.0															X		
23	FC020 3.5 - 3.7																	
24	FC020 4.8 - 5.0																	
25	FC022 0.1 - 0.2																	
26	FC022 0.4 - 0.6																	
27	FC022 1.8 - 2.0															X		
28	FC022 3.5 - 3.7																	
29	FC022 4.8 - 5.0															X		
30	FC023 0.2 - 0.3																	
31	FC023 1.0 - 1.2															X		
32	FC023 2.2 - 2.4																	
33	FC023 3.2 - 3.4																	
34	FC023 4.5 - 4.7																	
35	FC026 0.2 - 0.3															X		
																X		

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Nathan DATE: 10/1/14	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE:	
NAME: DATE:	CONSIGNMENT NOTE NO.	OF:	COOLER TEMP ..... deg C
OF:	TRANSPORT CO	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
		OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Envirolab

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

Envirolab Services Pty Ltd
12 Ashley Street
Chatswood
NSW 2067

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square Block 1b A/B
SEND REPORT TO: N Nissen SEND INVOICE TO: C Ng
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS:
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: nnissen@jbsg.com.au
QC LEVEL: NEPM (2013)

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	COMBO SUITES: SOIL - 4	SOIL – 4L	SOIL – 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER – 1m	WATER – 2L	WATER – 3L	Asbestos ID/Pres	NOTES:
36	FC026 0.6-0.8	Soil	10/1/14		Bag													
37	FC026 1.8-2.0	↓	↓		↓													
38	FC026 3.5-3.7																X	
39	FC026 4.5-4.7																	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Nathan DATE: 10/1/14	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE:	
NAME: DATE:	CONSIGNMENT NOTE NO.	OF:	COOLER TEMP ..... deg C
OF:	TRANSPORT CO	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
		OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 - Chain of Custody - Envirolab

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

PICKFORD & RHYDER CONSULTING PTY LTD
ABN 17 105 546 076
Occupational Hygiene Measurements and Solutions.

PO Box 1422 Lane Cove 1595
Rear - 244 Burns Bay Road
Lane Cove NSW Australia
Phone: (02) 9418 9151
Fax: (02) 9418 9150

21 January 2014

N. Cussen
JBS&G (NSW & WA) Pty Ltd
Level 1
50 Margaret Street
SYDNEY NSW 2000

Email: ncussen@jbsg.com.au,

CERTIFICATE OF ANALYSIS – ASBESTOS IDENTIFICATION

YOUR REFERENCE/JOB No: 43182
TYPE OF SAMPLES: Bulk samples - as received from Envirolab Services
SITE LOCATION: Green Square, Block 15 BCD
DATE SAMPLED: 14 January 2014 **DATE RECEIVED:** 16 January 2014
OUR REFERENCE: 77803/04-ID

TEST METHOD: Soil samples examined by Stereomicroscopy and Polarized Light Microscopy (with Dispersion Staining) in accordance with AS 4964-2004: - 'Method for the qualitative identification of asbestos in bulk samples' as outlined in Laboratory Method ID/1. The Reporting Limit for the results in this Certificate is numerically equal to the lowest detection limit of 0.1 g/kg. Trace asbestos analysis has been conducted on each sample, which is generally designed to detect 'respirable' asbestos fibres (i.e. less than 3 micrometres in width) distributed throughout the sample.

Sample No	*Lab No*	*Sample Information*	*Analysis Result*	*Description*
QC08-A	77803	Soil sample as received	No asbestos detected	The sample was a grey soil with stones, of total approximate weight 1027 g. No asbestos fibres were detected in the +2 mm fraction. No asbestos fibres were detected in a representative sub-sample of the –2 mm fraction. No asbestos fibres were found at the Reporting Limit of 0.1g/kg.
QC14-A	77804	Soil sample as received	No asbestos detected	The sample was a yellow, sandy soil with stones, plant matter and ceramic fragments, of total approximate weight 1090 g, in which organic fibres were detected in the -2mm fraction. No asbestos fibres were detected in the +2 mm fraction. No asbestos fibres were detected in a representative sub-sample of the –2 mm fraction. No asbestos fibres were found at the Reporting Limit of 0.1g/kg.

All sampling and site work has been undertaken by the client - the analytical procedures and results reported on this Certificate have been conducted by Pickford & Rhyder Consulting.

Sampling is not covered by the scope of accreditation.

Analysed and reported by:

Gary Conaty,
Approved Identifier and Signatory.

NATA
ACCREDITED FOR TECHNICAL COMPETENCE

Accredited for compliance with ISO/IEC 17025. This document shall not be reproduced except in full.

Accreditation number 2515

77803 – 4

Envirolab Services Pty Ltd
12 Ashley Street
Chatswood
NSW 2067

For P&L

Page 1 of 1

JBS&G

CHAIN OF CUSTODY

PROJECT NO.: 43182	LABORATORY BATCH NO.:
PROJECT NAME: Green Square Block 15 BCD	SAMPLERS:
SEND REPORT TO: N Cussen SEND INVOICE TO:	PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL:
DATE NEEDED BY:	QC LEVEL: NEPM (2013)

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

P&L

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	COMBO SUITES: SOIL - 4	SOIL – 4L	SOIL – 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER – 1m	WATER – 2L	WATER – 3L	Asbestos (500)	NOTES:
QC08 – A	Soil	14.1.14		Bag												1	
QC14 – A	Soil	14.1.14		Bag												1	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Natha DATE: 15-01-14	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: OF:	COOLER TEMP ..... deg C
NAME: DATE: 16/1/14	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Envirolab

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

JM
16/1/14
9:30

eurofins | mgt

ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

Melbourne
3-5 Kingston Town Close
Oakleigh VIC 3166
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F6, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Order No.:
Report #: 406453
Phone: 02 8245 0300
Fax:

Received: Jan 23, 2014 10:02 AM
Due: Jan 31, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Client Job No.: ADDITIONAL: GREEN SQUARE BLOCK 15 BCD 43182

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Asphalt*	Lead	Polycyclic Aromatic Hydrocarbons	Toxicity Characteristic Leaching Procedure (TCLP)	Metals M8
Laboratory where analysis is conducted										
Melbourne Laboratory - NATA Site # 1254 & 14271										
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794										
External Laboratory										
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**						
FC030 0.8-1.0	Jan 14, 2014		TCLP	S14-Ja11001	X			X	X	X
FC030 2.8-3.0	Jan 14, 2014		TCLP	S14-Ja11002	X			X	X	X
FC031 0.1-0.2	Jan 14, 2014		TCLP	S14-Ja11003	X		X	X	X	
FC033 0.8-1.0	Jan 14, 2014		TCLP	S14-Ja11004	X		X	X	X	
FC036 0.2-0.3	Jan 14, 2014		TCLP	S14-Ja11005	X			X	X	
FC036 2.0-2.2	Jan 14, 2014		TCLP	S14-Ja11006	X	X		X	X	X
FC036 4.1-4.3	Jan 14, 2014		TCLP	S14-Ja11007	X			X	X	
FC046 0.5-0.6	Jan 14, 2014		TCLP	S14-Ja11008	X				X	X
FC095 2.0-2.1	Jan 14, 2014		TCLP	S14-Ja11009	X				X	X

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ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

Melbourne
3-5 Kingston Town Close
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Phone : +61 3 8564 5000
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Lane Cove West NSW 2066
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NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Sample Receipt Advice

Company name: **JBS & G (NSW & WA) Pty Ltd**

Contact name: Nathan Cussen
Client job number: ADDITIONAL: GREEN SQUARE BLOCK 15 BCD 43182
COC number: Not provided
Turn around time: 5 Day
Date/Time received: Jan 23, 2014 10:02 AM
Eurofins | mgt reference: **406453**

Sample information

☑ A detailed list of analytes logged into our LIMS, is included in the attached summary table.

☑ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt Sample Receipt : 11 degrees Celsius.

☑ All samples have been received as described on the above COC.

☑ COC has been completed correctly.

☑ Attempt to chill was evident.

☑ Appropriately preserved sample containers have been used.

☑ All samples were received in good condition.

☑ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.

☑ Organic samples had Teflon liners.

☑ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Notes

Additional from report 405730 | Coal Tar analysis conducted at Envirolab.

Contact notes

If you have any questions with respect to these samples please contact:

Jean Heng on Phone : (+61) (2) 9900 8400 or by e.mail: JeanHeng@eurofins.com.au

Results will be delivered electronically via e.mail to Nathan Cussen - ncussen@jbsg.com.au.

Eurofins | mgt Sample Receipt

eurofins | mgt

Certificate of Analysis

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention: **Nathan Cussen**

Report **406453-L**
Client Reference ADDITIONAL: GREEN SQUARE BLOCK 15 BCD 43182
Received Date Jan 23, 2014

Client Sample ID **Sample Matrix** **Eurofins | mgt Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**FC030 0.8-1.0** **TCLP** **S14-Ja11001** **Jan 14, 2014**	**FC030 2.8-3.0** **TCLP** **S14-Ja11002** **Jan 14, 2014**	**FC031 0.1-0.2** **TCLP** **S14-Ja11003** **Jan 14, 2014**	**FC033 0.8-1.0** **TCLP** **S14-Ja11004** **Jan 14, 2014**
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.001	mg/L	< 0.001	0.001	< 0.001	0.002
Acenaphthylene	0.001	mg/L	< 0.001	< 0.001	0.002	< 0.001
Anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benz(a)anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(a)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(g.h.i)perylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(k)fluoranthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chrysene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dibenz(a.h)anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Fluoranthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Fluorene	0.001	mg/L	< 0.001	< 0.001	0.001	0.001
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Naphthalene	0.001	mg/L	0.006	0.001	< 0.001	< 0.001
Phenanthrene	0.001	mg/L	0.001	0.001	0.004	0.001
Pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Total PAH	0.002	mg/L	0.007	0.003	0.007	0.004
2-Fluorobiphenyl (surr.)	1	%	81	74	98	96
p-Terphenyl-d14 (surr.)	1	%	110	93	130	128
Heavy Metals						
Arsenic	0.01	mg/L	< 0.01	< 0.01	-	-
Cadmium	0.005	mg/L	< 0.005	< 0.005	-	-
Chromium	0.05	mg/L	< 0.05	< 0.05	-	-
Copper	0.05	mg/L	< 0.05	< 0.05	-	-
Lead	0.01	mg/L	24	2.4	0.92	0.31
Mercury	0.001	mg/L	< 0.001	< 0.001	-	-
Nickel	0.05	mg/L	< 0.05	< 0.05	-	-
Zinc	0.05	mg/L	0.88	0.92	-	-
% Moisture	0.1	%	9.0	13	11	8.8
Toxicity Characteristic Leaching Procedure (TCLP)						
Leachate Fluid[C01]		comment	1.0	1.0	1.0	1.0
pH (TCLP - HCl addition)	0.1	units	2.0	1.9	1.9	1.9
pH (TCLP - initial)	0.1	units	8.9	9.0	8.5	9.0
pH (TCLP - off)	0.1	units	6.1	6.1	5.0	5.1

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC036 0.2-0.3 TCLP S14-Ja11005 Jan 14, 2014	FC036 2.0-2.2 TCLP S14-Ja11006 Jan 14, 2014	FC036 4.1-4.3 TCLP S14-Ja11007 Jan 14, 2014	FC046 0.5-0.6 TCLP S14-Ja11008 Jan 14, 2014
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.001	mg/L	0.002	< 0.001	< 0.001	-
Acenaphthylene	0.001	mg/L	0.002	< 0.001	< 0.001	-
Anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Benz(a)anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Benzo(a)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Benzo(g.h.i)perylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Benzo(k)fluoranthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Chrysene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Dibenz(a.h)anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Fluoranthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Fluorene	0.001	mg/L	0.003	< 0.001	< 0.001	-
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Naphthalene	0.001	mg/L	0.024	< 0.001	0.002	-
Phenanthrene	0.001	mg/L	0.003	0.002	< 0.001	-
Pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Total PAH	0.002	mg/L	0.034	0.002	0.002	-
2-Fluorobiphenyl (surr.)	1	%	104	97	94	-
p-Terphenyl-d14 (surr.)	1	%	129	129	120	-
Heavy Metals						
Arsenic	0.01	mg/L	-	< 0.01	-	< 0.01
Cadmium	0.005	mg/L	-	< 0.005	-	< 0.005
Chromium	0.05	mg/L	-	< 0.05	-	< 0.05
Copper	0.05	mg/L	-	< 0.05	-	< 0.05
Lead	0.01	mg/L	-	0.28	-	0.08
Mercury	0.001	mg/L	-	< 0.001	-	< 0.001
Nickel	0.05	mg/L	-	< 0.05	-	< 0.05
Zinc	0.05	mg/L	-	0.92	-	1.5
% Moisture	0.1	%	12	5.2	10	13
Toxicity Characteristic Leaching Procedure (TCLP)						
Leachate Fluid[C01]		comment	1.0	1.0	1.0	1.0
pH (TCLP - HCl addition)	0.1	units	1.8	1.8	1.8	1.9
pH (TCLP - initial)	0.1	units	8.2	8.9	8.7	8.0
pH (TCLP - off)	0.1	units	5.0	5.1	5.0	5.1
Foreign Material - Type I						
Asphalt*			-	see attached	-	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC095 2.0-2.1 TCLP S14-Ja11009 Jan 14, 2014
Heavy Metals			
Arsenic	0.01	mg/L	< 0.01
Cadmium	0.005	mg/L	< 0.005
Chromium	0.05	mg/L	< 0.05
Copper	0.05	mg/L	< 0.05

Client Sample ID			FC095 2.0-2.1
Sample Matrix			**TCLP**
Eurofins | mgt Sample No.			**S14-Ja11009**
Date Sampled			**Jan 14, 2014**
Test/Reference	LOR	Unit	
Heavy Metals			
Lead	0.01	mg/L	0.55
Mercury	0.001	mg/L	< 0.001
Nickel	0.05	mg/L	< 0.05
Zinc	0.05	mg/L	0.81
% Moisture	0.1	%	9.1
Toxicity Characteristic Leaching Procedure (TCLP)			
Leachate Fluid[C01]		comment	1.0
pH (TCLP - HCl addition)	0.1	units	1.9
pH (TCLP - initial)	0.1	units	9.0
pH (TCLP - off)	0.1	units	6.2

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Polycyclic Aromatic Hydrocarbons	Sydney	Jan 29, 2014	7 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Metals M8	Sydney	Jan 28, 2014	28 Day
- Method: E022 Acid Extractable metals in Soils & E026 Mercury			
Heavy Metals	Sydney	Jan 28, 2014	180 Day
- Method: E022 Acid Extractable metals in Soils			
% Moisture	Sydney	Jan 28, 2014	0 Day
- Method: E005 Moisture Content			
Toxicity Characteristic Leaching Procedure (TCLP)	Sydney	Jan 28, 2014	0 Day
- Method: E019 TCLP Preparation			
Foreign Material - Type I	Sydney	Jan 23, 2014	0 Day
- Method: RTA Method T276			

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Melbourne
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Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

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16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: ADDITIONAL: GREEN SQUARE BLOCK 15 BCD 43182

Order No.:
Report #: 406453
Phone: 02 8245 0300
Fax:

Received: Jan 23, 2014 10:02 AM
Due: Jan 31, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Asphalt*	Lead	Polycyclic Aromatic Hydrocarbons	Toxicity Characteristic Leaching Procedure (TCLP)	Metals M8
Laboratory where analysis is conducted										
Melbourne Laboratory - NATA Site # 1254 & 14271										
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794										
External Laboratory										
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**						
FC030 0.8-1.0	Jan 14, 2014		TCLP	S14-Ja11001	X			X	X	X
FC030 2.8-3.0	Jan 14, 2014		TCLP	S14-Ja11002	X			X	X	X
FC031 0.1-0.2	Jan 14, 2014		TCLP	S14-Ja11003	X		X	X	X	
FC033 0.8-1.0	Jan 14, 2014		TCLP	S14-Ja11004	X		X	X	X	
FC036 0.2-0.3	Jan 14, 2014		TCLP	S14-Ja11005	X			X	X	
FC036 2.0-2.2	Jan 14, 2014		TCLP	S14-Ja11006	X	X		X	X	X
FC036 4.1-4.3	Jan 14, 2014		TCLP	S14-Ja11007	X			X	X	
FC046 0.5-0.6	Jan 14, 2014		TCLP	S14-Ja11008	X				X	X
FC095 2.0-2.1	Jan 14, 2014		TCLP	S14-Ja11009	X				X	X

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

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Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/L	< 0.001			0.001	Pass	
Acenaphthylene	mg/L	< 0.001			0.001	Pass	
Anthracene	mg/L	< 0.001			0.001	Pass	
Benz(a)anthracene	mg/L	< 0.001			0.001	Pass	
Benzo(a)pyrene	mg/L	< 0.001			0.001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.001			0.001	Pass	
Benzo(g.h.i)perylene	mg/L	< 0.001			0.001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.001			0.001	Pass	
Chrysene	mg/L	< 0.001			0.001	Pass	
Dibenz(a.h)anthracene	mg/L	< 0.001			0.001	Pass	
Fluoranthene	mg/L	< 0.001			0.001	Pass	
Fluorene	mg/L	< 0.001			0.001	Pass	
Indeno(1.2.3-cd)pyrene	mg/L	< 0.001			0.001	Pass	
Naphthalene	mg/L	< 0.001			0.001	Pass	
Phenanthrene	mg/L	< 0.001			0.001	Pass	
Pyrene	mg/L	< 0.001			0.001	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.01			0.01	Pass	
Cadmium	mg/L	< 0.005			0.005	Pass	
Chromium	mg/L	< 0.05			0.05	Pass	
Copper	mg/L	< 0.05			0.05	Pass	
Lead	mg/L	< 0.01			0.01	Pass	
Mercury	mg/L	< 0.001			0.001	Pass	
Nickel	mg/L	< 0.05			0.05	Pass	
Zinc	mg/L	< 0.05			0.05	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S14-Ja10921	NCP	%	97			70-130	Pass	
Cadmium	S14-Ja10921	NCP	%	96			70-130	Pass	
Chromium	S14-Ja10921	NCP	%	95			70-130	Pass	
Copper	S14-Ja10921	NCP	%	90			70-130	Pass	
Lead	S14-Ja10921	NCP	%	84			70-130	Pass	
Mercury	S14-Ja10921	NCP	%	94			70-130	Pass	
Nickel	S14-Ja10921	NCP	%	88			70-130	Pass	
Zinc	S14-Ja10939	NCP	%	83			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S14-Ja11002	CP	%	73			70-130	Pass	
Acenaphthylene	S14-Ja11002	CP	%	68			70-130	Fail	Q08
Anthracene	S14-Ja11002	CP	%	72			70-130	Pass	
Benz(a)anthracene	S14-Ja11002	CP	%	74			70-130	Pass	
Benzo(a)pyrene	S14-Ja11002	CP	%	84			70-130	Pass	
Benzo(b&j)fluoranthene	S14-Ja11002	CP	%	85			70-130	Pass	
Benzo(g.h.i)perylene	S14-Ja11002	CP	%	79			70-130	Pass	
Benzo(k)fluoranthene	S14-Ja11002	CP	%	72			70-130	Pass	
Chrysene	S14-Ja11002	CP	%	74			70-130	Pass	
Dibenz(a.h)anthracene	S14-Ja11002	CP	%	78			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Fluoranthene	S14-Ja11002	CP	%	71			70-130	Pass	
Fluorene	S14-Ja11002	CP	%	76			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja11002	CP	%	77			70-130	Pass	
Naphthalene	S14-Ja11002	CP	%	77			70-130	Pass	
Phenanthrene	S14-Ja11002	CP	%	72			70-130	Pass	
Pyrene	S14-Ja11002	CP	%	72			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S14-Ja11001	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Acenaphthylene	S14-Ja11001	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Anthracene	S14-Ja11001	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benz(a)anthracene	S14-Ja11001	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(a)pyrene	S14-Ja11001	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(b&j)fluoranthene	S14-Ja11001	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(g.h.i)perylene	S14-Ja11001	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(k)fluoranthene	S14-Ja11001	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chrysene	S14-Ja11001	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibenz(a.h)anthracene	S14-Ja11001	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluoranthene	S14-Ja11001	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluorene	S14-Ja11001	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja11001	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Naphthalene	S14-Ja11001	CP	mg/L	0.006	0.006	1.0	30%	Pass	
Phenanthrene	S14-Ja11001	CP	mg/L	0.001	0.001	3.0	30%	Pass	
Pyrene	S14-Ja11001	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S14-Ja10920	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Cadmium	S14-Ja10920	NCP	mg/L	0.0060	0.0060	1.0	30%	Pass	
Chromium	S14-Ja10920	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Copper	S14-Ja10920	NCP	mg/L	0.070	0.070	1.0	30%	Pass	
Lead	S14-Ja10920	NCP	mg/L	1.1	1.1	<1	30%	Pass	
Mercury	S14-Ja10920	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Nickel	S14-Ja10920	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Zinc	S14-Ja10920	NCP	mg/L	4.5	4.5	<1	30%	Pass	

Comments

Coal tar analysis was performed by Envirolab Services. Report reference 104022.

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	Yes

Qualifier Codes/Comments

Code	Description
C01	Leachate Fluid Key: 1 - pH 5.0, 2 - pH 2.9, 3 - pH 9.2, 4 - Reagent (DI) water, 5 - Client sample, 6 - other
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q08	The matrix spike recovery is outside of the recommended acceptance criteria. An acceptable recovery was obtained for the laboratory control sample indicating a sample matrix interference

Authorised By

Jean Heng	Client Services
James Norford	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)

Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

Eurofins | mgt shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins | mgt be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

*406453

From: Nathan Cussen [mailto:NCussen@jbsg.com.au]
Sent: Thursday, 23 January 2014 10:02 AM
To: Jean Heng
Subject: Lab Batch 405730 - Green Square Block 15 BCD

Hi Jean,

Could I please schedule the following TCLP analysis:

- FC030 0.8-1.0 PAH & METALS
- FC030 2.8-3.0 PAH & METALS
- FC031 0.1-0.2 PAH & LEAD
- FC033 0.8-1.0 PAH & LEAD
- FC036 0.2-0.3 PAH
- FC036 2.0-2.2 PAH & METALS (Could I also please schedule coal tar analysis)
- FC036 4.1-4.3 PAH
- FC046 0.5-0.6 METALS
- FC095 2.0-2.1 METALS

Regards,
Nathan

Nathan Cussen | Senior Environmental Consultant| JBS&G
Sydney | Melbourne | Adelaide | Perth | Brisbane
Level 1, 50 Margaret Street, Sydney NSW 2000
T: 02 8245 0300 | M: 0431 401 022| www.jbsg.com.au
Contaminated Land | Groundwater Remediation | Auditing and Compliance | Assessments and Approvals | Occupational Hygiene and Monitoring

If you would like to send through large electronic files (>25MB), please use JBS&G's secure internet-based file delivery system located at http://dropbox.yousendit.com/JBSG. Place `Nathan Cussen - Sydney in the subject.
This email message is intended only for the addressee(s) and contains information that may be confidential and/or copyright. If you are not the intended recipient please delete this email immediately. Use, disclosure or reproduction of this email by anyone other than the intended recipient(s) is strictly prohibited. No representation is made that this email or any attachments are free of viruses and the recipient is responsible for undertaking appropriate virus scanning. Any advice provided in or attached to this email is subject to limitations.

Click here to report this email as spam.

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NATA # 1261
Site # 1254 & 14271

Sydney
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Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Sample Receipt Advice

Company name: **JBS & G (NSW & WA) Pty Ltd**

Contact name: Nathan Cussen
Client job number: ADDITIONAL: GREEN SQUARE BLOCK 15 BLD 43182
COC number: Not provided
Turn around time: 5 Day
Date/Time received: Jan 23, 2014 10:04 AM
Eurofins | mgt reference: **406429**

Sample information

☑ A detailed list of analytes logged into our LIMS, is included in the attached summary table.

☑ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt Sample Receipt : 11 degrees Celsius.

☑ All samples have been received as described on the above COC.

☑ COC has been completed correctly.

☑ Attempt to chill was evident.

☑ Appropriately preserved sample containers have been used.

☑ All samples were received in good condition.

☑ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.

☑ Organic samples had Teflon liners.

☒ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Notes

Additional from report 405815.

Contact notes

If you have any questions with respect to these samples please contact:

Jean Heng on Phone : (+61) (2) 9900 8400 or by e.mail: JeanHeng@eurofins.com.au

Results will be delivered electronically via e.mail to Nathan Cussen - ncussen@jbsg.com.au.

Eurofins | mgt Sample Receipt

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ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

Melbourne
3-5 Kingston Town Close
Oakleigh VIC 3166
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F6, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name:	JBS & G (NSW & WA) Pty Ltd	**Order No.:**		**Received:**	Jan 23, 2014 10:04 AM
Address:	Level 1, 50 Margaret St Sydney NSW 2000	**Report #:**	406429	**Due:**	Jan 31, 2014
		Phone:	02 8245 0300	**Priority:**	5 Day
		Fax:		**Contact Name:**	Nathan Cussen
Client Job No.:	ADDITIONAL: GREEN SQUARE BLOCK 15 BLD 43182				

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Lead	Polycyclic Aromatic Hydrocarbons	Toxicity Characteristic Leaching Procedure (TCLP)	Metals M8
Laboratory where analysis is conducted									
Melbourne Laboratory - NATA Site # 1254 & 14271									
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794									
External Laboratory									
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**					
FC029 5.0-5.2	Jan 14, 2014		TCLP	S14-Ja10855	X		X	X	X
FC035 0.5-0.7	Jan 14, 2014		TCLP	S14-Ja10856	X	X			
FC035 3.8-4.0	Jan 14, 2014		TCLP	S14-Ja10857	X	X			

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Certificate of Analysis

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Nathan Cussen**

Report **406429-L**
Client Reference ADDITIONAL: GREEN SQUARE BLOCK 15 BLD 43182
Received Date Jan 23, 2014

Client Sample ID **Sample Matrix** **Eurofins | mgt Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**FC029 5.0-5.2** **TCLP** **S14-Ja10855** **Jan 14, 2014**	**FC035 0.5-0.7** **TCLP** **S14-Ja10856** **Jan 14, 2014**	**FC035 3.8-4.0** **TCLP** **S14-Ja10857** **Jan 14, 2014**
Polycyclic Aromatic Hydrocarbons					
Acenaphthene	0.001	mg/L	< 0.001	-	-
Acenaphthylene	0.001	mg/L	< 0.001	-	-
Anthracene	0.001	mg/L	< 0.001	-	-
Benz(a)anthracene	0.001	mg/L	< 0.001	-	-
Benzo(a)pyrene	0.001	mg/L	< 0.001	-	-
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	< 0.001	-	-
Benzo(g.h.i)perylene	0.001	mg/L	< 0.001	-	-
Benzo(k)fluoranthene	0.001	mg/L	< 0.001	-	-
Chrysene	0.001	mg/L	< 0.001	-	-
Dibenz(a.h)anthracene	0.001	mg/L	< 0.001	-	-
Fluoranthene	0.001	mg/L	< 0.001	-	-
Fluorene	0.001	mg/L	< 0.001	-	-
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001	-	-
Naphthalene	0.001	mg/L	0.001	-	-
Phenanthrene	0.001	mg/L	0.001	-	-
Pyrene	0.001	mg/L	< 0.001	-	-
Total PAH	0.002	mg/L	0.002	-	-
2-Fluorobiphenyl (surr.)	1	%	83	-	-
p-Terphenyl-d14 (surr.)	1	%	112	-	-
Heavy Metals					
Arsenic	0.01	mg/L	< 0.01	-	-
Cadmium	0.005	mg/L	< 0.005	-	-
Chromium	0.05	mg/L	< 0.05	-	-
Copper	0.05	mg/L	< 0.05	-	-
Lead	0.01	mg/L	0.07	0.05	0.09
Mercury	0.001	mg/L	< 0.001	-	-
Nickel	0.05	mg/L	< 0.05	-	-
Zinc	0.05	mg/L	0.49	-	-
% Moisture	0.1	%	8.6	9.7	12
Toxicity Characteristic Leaching Procedure (TCLP)					
Leachate Fluid[C01]		comment	1.0	-	-
pH (TCLP - HCl addition)	0.1	units	1.7	-	-
pH (TCLP - initial)	0.1	units	7.8	-	-
pH (TCLP - off)	0.1	units	5.3	-	-

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Polycyclic Aromatic Hydrocarbons	Sydney	Jan 28, 2014	7 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Metals M8	Sydney	Jan 24, 2014	28 Day
- Method: E022 Acid Extractable metals in Soils & E026 Mercury			
Heavy Metals	Sydney	Jan 24, 2014	180 Day
- Method: E022 Acid Extractable metals in Soils			
% Moisture	Sydney	Jan 24, 2014	0 Day
- Method: E005 Moisture Content			
Toxicity Characteristic Leaching Procedure (TCLP)	Sydney	Jan 24, 2014	0 Day
- Method: E019 TCLP Preparation			

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NATA # 1261 Site # 18217

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1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: ADDITIONAL: GREEN SQUARE BLOCK 15 BLD 43182

Order No.:
Report #: 406429
Phone: 02 8245 0300
Fax:

Received: Jan 23, 2014 10:04 AM
Due: Jan 31, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Lead	Polycyclic Aromatic Hydrocarbons	Toxicity Characteristic Leaching Procedure (TCLP)	Metals M8
Laboratory where analysis is conducted									
Melbourne Laboratory - NATA Site # 1254 & 14271									
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794									
External Laboratory									
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**					
FC029 5.0-5.2	Jan 14, 2014		TCLP	S14-Ja10855	X		X	X	X
FC035 0.5-0.7	Jan 14, 2014		TCLP	S14-Ja10856	X	X			
FC035 3.8-4.0	Jan 14, 2014		TCLP	S14-Ja10857	X	X			

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/L	< 0.001			0.001	Pass	
Acenaphthylene	mg/L	< 0.001			0.001	Pass	
Anthracene	mg/L	< 0.001			0.001	Pass	
Benz(a)anthracene	mg/L	< 0.001			0.001	Pass	
Benzo(a)pyrene	mg/L	< 0.001			0.001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.001			0.001	Pass	
Benzo(g.h.i)perylene	mg/L	< 0.001			0.001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.001			0.001	Pass	
Chrysene	mg/L	< 0.001			0.001	Pass	
Dibenz(a.h)anthracene	mg/L	< 0.001			0.001	Pass	
Fluoranthene	mg/L	< 0.001			0.001	Pass	
Fluorene	mg/L	< 0.001			0.001	Pass	
Indeno(1.2.3-cd)pyrene	mg/L	< 0.001			0.001	Pass	
Naphthalene	mg/L	< 0.001			0.001	Pass	
Phenanthrene	mg/L	< 0.001			0.001	Pass	
Pyrene	mg/L	< 0.001			0.001	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.01			0.01	Pass	
Cadmium	mg/L	< 0.005			0.005	Pass	
Chromium	mg/L	< 0.05			0.05	Pass	
Copper	mg/L	< 0.05			0.05	Pass	
Lead	mg/L	< 0.01			0.01	Pass	
Mercury	mg/L	< 0.001			0.001	Pass	
Nickel	mg/L	< 0.05			0.05	Pass	
Zinc	mg/L	< 0.05			0.05	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S14-Ja10859	NCP	%	76			70-130	Pass	
Acenaphthylene	S14-Ja10859	NCP	%	71			70-130	Pass	
Anthracene	S14-Ja10859	NCP	%	77			70-130	Pass	
Benz(a)anthracene	S14-Ja10859	NCP	%	71			70-130	Pass	
Benzo(a)pyrene	S14-Ja10859	NCP	%	75			70-130	Pass	
Benzo(b&j)fluoranthene	S14-Ja10859	NCP	%	79			70-130	Pass	
Benzo(g.h.i)perylene	S14-Ja10859	NCP	%	75			70-130	Pass	
Benzo(k)fluoranthene	S14-Ja10859	NCP	%	73			70-130	Pass	
Chrysene	S14-Ja10859	NCP	%	72			70-130	Pass	
Dibenz(a.h)anthracene	S14-Ja10859	NCP	%	78			70-130	Pass	
Fluoranthene	S14-Ja10859	NCP	%	76			70-130	Pass	
Fluorene	S14-Ja10859	NCP	%	77			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja10859	NCP	%	77			70-130	Pass	
Naphthalene	S14-Ja10859	NCP	%	73			70-130	Pass	
Phenanthrene	S14-Ja10859	NCP	%	83			70-130	Pass	
Pyrene	S14-Ja10859	NCP	%	77			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S14-Ja10856	CP	%	96			70-130	Pass	
Cadmium	S14-Ja10856	CP	%	97			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Chromium	S14-Ja10856	CP	%	93			70-130	Pass	
Copper	S14-Ja10856	CP	%	90			70-130	Pass	
Lead	S14-Ja10856	CP	%	89			70-130	Pass	
Mercury	S14-Ja10856	CP	%	97			70-130	Pass	
Nickel	S14-Ja10856	CP	%	90			70-130	Pass	
Zinc	S14-Ja10856	CP	%	91			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S14-Ja10858	NCP	mg/L	0.0030	0.0030	6.0	30%	Pass	
Acenaphthylene	S14-Ja10858	NCP	mg/L	0.0010	< 0.001	1.0	30%	Pass	
Anthracene	S14-Ja10858	NCP	mg/L	0.0030	0.0030	6.0	30%	Pass	
Benz(a)anthracene	S14-Ja10858	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(a)pyrene	S14-Ja10858	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(b&j)fluoranthene	S14-Ja10858	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(g.h.i)perylene	S14-Ja10858	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(k)fluoranthene	S14-Ja10858	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chrysene	S14-Ja10858	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibenz(a.h)anthracene	S14-Ja10858	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluoranthene	S14-Ja10858	NCP	mg/L	0.0050	0.0050	4.0	30%	Pass	
Fluorene	S14-Ja10858	NCP	mg/L	0.0030	0.0030	8.0	30%	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja10858	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Naphthalene	S14-Ja10858	NCP	mg/L	0.0040	0.0040	5.0	30%	Pass	
Phenanthrene	S14-Ja10858	NCP	mg/L	0.014	0.013	3.0	30%	Pass	
Pyrene	S14-Ja10858	NCP	mg/L	0.0040	0.0040	4.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S14-Ja10855	CP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Cadmium	S14-Ja10855	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Chromium	S14-Ja10855	CP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Copper	S14-Ja10855	CP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Lead	S14-Ja10855	CP	mg/L	0.07	0.06	1.0	30%	Pass	
Mercury	S14-Ja10855	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Nickel	S14-Ja10855	CP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Zinc	S14-Ja10855	CP	mg/L	0.49	0.50	1.0	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
C01	Leachate Fluid Key: 1 - pH 5.0, 2 - pH 2.9, 3 - pH 9.2, 4 - Reagent (DI) water, 5 - Client sample, 6 - other
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs

Authorised By

Jean Heng	Client Services
James Norford	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)

Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

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#406429

From: Nathan Cussen [mailto:NCussen@jbsg.com.au]
Sent: Thursday, 23 January 2014 10:04 AM
To: Jean Heng
Subject: Lab Batch 405815 - Green Square Block 15 BCD

Hi,

Could I please schedule the following TCLP analysis:

- FC029 5.0-5.2 PAH & METALS
- FC035 0.5-0.7 LEAD
- FC035 3.8-4.0 LEAD

Regards,
Nathan

Nathan Cussen | Senior Environmental Consultant| JBS&G
Sydney | Melbourne | Adelaide | Perth | Brisbane
Level 1, 50 Margaret Street, Sydney NSW 2000
T: 02 8245 0300 | M: 0431 401 022| www.jbsg.com.au
Contaminated Land | Groundwater Remediation | Auditing and Compliance | Assessments and Approvals | Occupational Hygiene and Monitoring

If you would like to send through large electronic files (>25MB), please use JBS&G's secure internet-based file delivery system located at http://dropbox.yousendit.com/JBSG. Place `Nathan Cussen - Sydney in the subject.
This email message is intended only for the addressee(s) and contains information that may be confidential and/or copyright. If you are not the intended recipient please delete this email immediately. Use, disclosure or reproduction of this email by anyone other than the intended recipient(s) is strictly prohibited. No representation is made that this email or any attachments are free of viruses and the recipient is responsible for undertaking appropriate virus scanning. Any advice provided in or attached to this email is subject to limitations.

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NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Sample Receipt Advice

Company name: **JBS & G (NSW & WA) Pty Ltd**

Contact name: Nathan Cussen
Client job number: ADDITIONAL: GREEN SQUARE BLOCK B, C, D 43182
COC number: Not provided
Turn around time: 5 Day
Date/Time received: Jan 22, 2014 9:40 AM
Eurofins | mgt reference: **406281**

Sample information

☑ A detailed list of analytes logged into our LIMS, is included in the attached summary table.

☑ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt Sample Receipt : 7 degrees Celsius.

☑ All samples have been received as described on the above COC.

☑ COC has been completed correctly.

☑ Attempt to chill was evident.

☑ Appropriately preserved sample containers have been used.

☑ All samples were received in good condition.

☑ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.

☑ Organic samples had Teflon liners.

☒ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Notes

Additional from 405482

Contact notes

If you have any questions with respect to these samples please contact:

Jean Heng on Phone : (+61) (2) 9900 8400 or by e.mail: JeanHeng@eurofins.com.au

Results will be delivered electronically via e.mail to Nathan Cussen - ncussen@jbsg.com.au.

Eurofins | mgt Sample Receipt

eurofins | mgt

ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

Melbourne
3-5 Kingston Town Close
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NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Order No.:
Report #: 406281
Phone: 02 8245 0300
Fax:

Received: Jan 22, 2014 9:40 AM
Due: Jan 30, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Client Job No.: ADDITIONAL: GREEN SQUARE BLOCK B, C, D 43182

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Lead	Polycyclic Aromatic Hydrocarbons	Toxicity Characteristic Leaching Procedure (TCLP)	Metals M8
Laboratory where analysis is conducted									
Melbourne Laboratory - NATA Site # 1254 & 14271									
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794									
External Laboratory									
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**					
FC043 0.2-0.3	Jan 10, 2014		TCLP	S14-Ja09861	X			X	X
FC044 0.1-0.2	Jan 09, 2014		TCLP	S14-Ja09862	X			X	X
FC047 1.5-1.7	Jan 09, 2014		TCLP	S14-Ja09863	X		X	X	X
FC048 0.1-0.2	Jan 09, 2014		TCLP	S14-Ja09864	X		X	X	
FC042 0.2-0.3	Jan 10, 2014		TCLP	S14-Ja09865	X	X		X	
FC042 0.8-1.0	Jan 10, 2014		TCLP	S14-Ja09866	X		X	X	X
FC094 1.7-1.9	Jan 10, 2014		TCLP	S14-Ja09867	X		X	X	X
FC094 0.2-0.3	Jan 10, 2014		TCLP	S14-Ja09868	X			X	X

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Certificate of Analysis

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Nathan Cussen**

Report **406281-L**
Client Reference ADDITIONAL: GREEN SQUARE BLOCK B, C, D 43182
Received Date Jan 22, 2014

Client Sample ID **Sample Matrix** **Eurofins | mgt Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**FC043 0.2-0.3** **TCLP** **S14-Ja09861** **Jan 10, 2014**	**FC044 0.1-0.2** **TCLP** **S14-Ja09862** **Jan 09, 2014**	**FC047 1.5-1.7** **TCLP** **S14-Ja09863** **Jan 09, 2014**	**FC048 0.1-0.2** **TCLP** **S14-Ja09864** **Jan 09, 2014**
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.001	mg/L	-	-	0.002	0.021
Acenaphthylene	0.001	mg/L	-	-	< 0.001	0.002
Anthracene	0.001	mg/L	-	-	< 0.001	0.024
Benz(a)anthracene	0.001	mg/L	-	-	< 0.001	0.001
Benzo(a)pyrene	0.001	mg/L	-	-	< 0.001	< 0.001
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	-	-	< 0.001	< 0.001
Benzo(g.h.i)perylene	0.001	mg/L	-	-	< 0.001	< 0.001
Benzo(k)fluoranthene	0.001	mg/L	-	-	< 0.001	< 0.001
Chrysene	0.001	mg/L	-	-	< 0.001	0.001
Dibenz(a.h)anthracene	0.001	mg/L	-	-	< 0.001	< 0.001
Fluoranthene	0.001	mg/L	-	-	0.001	0.034
Fluorene	0.001	mg/L	-	-	< 0.001	0.018
Indeno(1.2.3-cd)pyrene	0.001	mg/L	-	-	< 0.001	< 0.001
Naphthalene	0.001	mg/L	-	-	0.001	0.006
Phenanthrene	0.001	mg/L	-	-	0.003	0.12
Pyrene	0.001	mg/L	-	-	< 0.001	0.023
Total PAH	0.002	mg/L	-	-	0.007	0.25
2-Fluorobiphenyl (surr.)	1	%	-	-	83	130
p-Terphenyl-d14 (surr.)	1	%	-	-	84	115
Heavy Metals						
Arsenic	0.01	mg/L	< 0.01	< 0.01	< 0.01	-
Cadmium	0.005	mg/L	< 0.005	0.006	< 0.005	-
Chromium	0.05	mg/L	< 0.05	< 0.05	< 0.05	-
Copper	0.05	mg/L	< 0.05	< 0.05	< 0.05	-
Lead	0.01	mg/L	0.11	0.38	1.7	-
Mercury	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Nickel	0.05	mg/L	< 0.05	< 0.05	< 0.05	-
Zinc	0.05	mg/L	1.0	1.5	0.70	-
% Moisture	0.1	%	12	22	14	8.6
Toxicity Characteristic Leaching Procedure (TCLP)						
Leachate Fluid[C01]		comment	1.0	1.0	1.0	1.0
pH (TCLP - HCl addition)	0.1	units	1.8	1.8	1.8	1.8
pH (TCLP - initial)	0.1	units	8.8	8.5	8.2	8.3
pH (TCLP - off)	0.1	units	5.0	5.3	5.0	5.0

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC042 0.2-0.3 TCLP S14-Ja09865 Jan 10, 2014	FC042 0.8-1.0 TCLP S14-Ja09866 Jan 10, 2014	FC094 1.7-1.9 TCLP S14-Ja09867 Jan 10, 2014	FC094 0.2-0.3 TCLP S14-Ja09868 Jan 10, 2014
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.001	mg/L	-	0.002	0.003	-
Acenaphthylene	0.001	mg/L	-	< 0.001	< 0.001	-
Anthracene	0.001	mg/L	-	0.003	< 0.001	-
Benz(a)anthracene	0.001	mg/L	-	< 0.001	< 0.001	-
Benzo(a)pyrene	0.001	mg/L	-	< 0.001	< 0.001	-
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	-	< 0.001	< 0.001	-
Benzo(g.h.i)perylene	0.001	mg/L	-	< 0.001	< 0.001	-
Benzo(k)fluoranthene	0.001	mg/L	-	< 0.001	< 0.001	-
Chrysene	0.001	mg/L	-	< 0.001	< 0.001	-
Dibenz(a.h)anthracene	0.001	mg/L	-	< 0.001	< 0.001	-
Fluoranthene	0.001	mg/L	-	0.009	< 0.001	-
Fluorene	0.001	mg/L	-	< 0.001	0.002	-
Indeno(1.2.3-cd)pyrene	0.001	mg/L	-	< 0.001	< 0.001	-
Naphthalene	0.001	mg/L	-	0.002	0.002	-
Phenanthrene	0.001	mg/L	-	0.018	0.002	-
Pyrene	0.001	mg/L	-	0.008	< 0.001	-
Total PAH	0.002	mg/L	-	0.042	0.009	-
2-Fluorobiphenyl (surr.)	1	%	-	104	110	-
p-Terphenyl-d14 (surr.)	1	%	-	129	125	-
Heavy Metals						
Arsenic	0.01	mg/L	-	< 0.01	< 0.01	< 0.01
Cadmium	0.005	mg/L	-	< 0.005	0.009	< 0.005
Chromium	0.05	mg/L	-	< 0.05	< 0.05	< 0.05
Copper	0.05	mg/L	-	0.28	0.12	< 0.05
Lead	0.01	mg/L	0.23	0.70	0.53	0.13
Mercury	0.001	mg/L	-	< 0.001	< 0.001	< 0.001
Nickel	0.05	mg/L	-	< 0.05	< 0.05	< 0.05
Zinc	0.05	mg/L	-	0.75	3.3	0.96
% Moisture	0.1	%	9.2	22	17	22
Toxicity Characteristic Leaching Procedure (TCLP)						
Leachate Fluid[C01]		comment	1.0	1.0	1.0	1.0
pH (TCLP - HCl addition)	0.1	units	1.8	1.8	1.8	1.8
pH (TCLP - initial)	0.1	units	7.7	7.9	8.7	8.9
pH (TCLP - off)	0.1	units	5.2	5.6	6.2	5.1

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Polycyclic Aromatic Hydrocarbons	Sydney	Jan 24, 2014	7 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Metals M8	Sydney	Jan 23, 2014	28 Day
- Method: E022 Acid Extractable metals in Soils & E026 Mercury			
Heavy Metals	Sydney	Jan 23, 2014	180 Day
- Method: E022 Acid Extractable metals in Soils			
% Moisture	Sydney	Jan 23, 2014	0 Day
- Method: E005 Moisture Content			
Toxicity Characteristic Leaching Procedure (TCLP)	Sydney	Jan 23, 2014	0 Day
- Method: E019 TCLP Preparation			

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NATA # 1261 Site # 18217

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NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: ADDITIONAL: GREEN SQUARE BLOCK B, C, D 43182

Order No.:
Report #: 406281
Phone: 02 8245 0300
Fax:

Received: Jan 22, 2014 9:40 AM
Due: Jan 30, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Lead	Polycyclic Aromatic Hydrocarbons	Toxicity Characteristic Leaching Procedure (TCLP)	Metals M8
Laboratory where analysis is conducted									
Melbourne Laboratory - NATA Site # 1254 & 14271									
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794									
External Laboratory									
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**					
FC043 0.2-0.3	Jan 10, 2014		TCLP	S14-Ja09861	X			X	X
FC044 0.1-0.2	Jan 09, 2014		TCLP	S14-Ja09862	X			X	X
FC047 1.5-1.7	Jan 09, 2014		TCLP	S14-Ja09863	X		X	X	X
FC048 0.1-0.2	Jan 09, 2014		TCLP	S14-Ja09864	X		X	X	
FC042 0.2-0.3	Jan 10, 2014		TCLP	S14-Ja09865	X	X		X	
FC042 0.8-1.0	Jan 10, 2014		TCLP	S14-Ja09866	X		X	X	X
FC094 1.7-1.9	Jan 10, 2014		TCLP	S14-Ja09867	X		X	X	X
FC094 0.2-0.3	Jan 10, 2014		TCLP	S14-Ja09868	X			X	X

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/L	< 0.001			0.001	Pass	
Acenaphthylene	mg/L	< 0.001			0.001	Pass	
Anthracene	mg/L	< 0.001			0.001	Pass	
Benz(a)anthracene	mg/L	< 0.001			0.001	Pass	
Benzo(a)pyrene	mg/L	< 0.001			0.001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.001			0.001	Pass	
Benzo(g.h.i)perylene	mg/L	< 0.001			0.001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.001			0.001	Pass	
Chrysene	mg/L	< 0.001			0.001	Pass	
Dibenz(a.h)anthracene	mg/L	< 0.001			0.001	Pass	
Fluoranthene	mg/L	< 0.001			0.001	Pass	
Fluorene	mg/L	< 0.001			0.001	Pass	
Indeno(1.2.3-cd)pyrene	mg/L	< 0.001			0.001	Pass	
Naphthalene	mg/L	< 0.001			0.001	Pass	
Phenanthrene	mg/L	< 0.001			0.001	Pass	
Pyrene	mg/L	< 0.001			0.001	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.01			0.01	Pass	
Cadmium	mg/L	< 0.005			0.005	Pass	
Chromium	mg/L	< 0.05			0.05	Pass	
Copper	mg/L	< 0.05			0.05	Pass	
Lead	mg/L	< 0.01			0.01	Pass	
Mercury	mg/L	< 0.001			0.001	Pass	
Nickel	mg/L	< 0.05			0.05	Pass	
Zinc	mg/L	< 0.05			0.05	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S14-Ja09858	NCP	%	103			70-130	Pass	
Cadmium	S14-Ja09858	NCP	%	104			70-130	Pass	
Chromium	S14-Ja09858	NCP	%	100			70-130	Pass	
Copper	S14-Ja09858	NCP	%	96			70-130	Pass	
Lead	S14-Ja09858	NCP	%	95			70-130	Pass	
Mercury	S14-Ja09858	NCP	%	104			70-130	Pass	
Nickel	S14-Ja09858	NCP	%	97			70-130	Pass	
Zinc	S14-Ja09858	NCP	%	113			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S14-Ja09745	NCP	%	118			70-130	Pass	
Acenaphthylene	S14-Ja09745	NCP	%	110			70-130	Pass	
Anthracene	S14-Ja09745	NCP	%	115			70-130	Pass	
Benz(a)anthracene	S14-Ja09745	NCP	%	109			70-130	Pass	
Benzo(a)pyrene	S14-Ja09745	NCP	%	123			70-130	Pass	
Benzo(b&j)fluoranthene	S14-Ja09745	NCP	%	111			70-130	Pass	
Benzo(g.h.i)perylene	S14-Ja09745	NCP	%	102			70-130	Pass	
Benzo(k)fluoranthene	S14-Ja09745	NCP	%	123			70-130	Pass	
Chrysene	S14-Ja09745	NCP	%	120			70-130	Pass	
Dibenz(a.h)anthracene	S14-Ja09745	NCP	%	101			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Fluoranthene	S14-Ja09745	NCP	%	126			70-130	Pass	
Fluorene	S14-Ja09745	NCP	%	120			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja09745	NCP	%	108			70-130	Pass	
Naphthalene	S14-Ja09745	NCP	%	129			70-130	Pass	
Phenanthrene	S14-Ja09745	NCP	%	123			70-130	Pass	
Pyrene	S14-Ja09745	NCP	%	127			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Acenaphthylene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Anthracene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benz(a)anthracene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(a)pyrene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(b&j)fluoranthene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(g.h.i)perylene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(k)fluoranthene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chrysene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibenz(a.h)anthracene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluoranthene	S14-Ja09744	NCP	mg/L	0.0030	0.0030	14	30%	Pass	
Fluorene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Naphthalene	S14-Ja09744	NCP	mg/L	0.017	0.017	1.0	30%	Pass	
Phenanthrene	S14-Ja09744	NCP	mg/L	0.0030	0.0030	9.0	30%	Pass	
Pyrene	S14-Ja09744	NCP	mg/L	0.0030	0.0030	13	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S14-Ja09868	CP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Cadmium	S14-Ja09868	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Chromium	S14-Ja09868	CP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Copper	S14-Ja09868	CP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Lead	S14-Ja09868	CP	mg/L	0.13	0.13	3.0	30%	Pass	
Mercury	S14-Ja09868	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Nickel	S14-Ja09868	CP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Zinc	S14-Ja09868	CP	mg/L	0.96	0.93	3.0	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
C01	Leachate Fluid Key: 1 - pH 5.0, 2 - pH 2.9, 3 - pH 9.2, 4 - Reagent (DI) water, 5 - Client sample, 6 - other
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs

Authorised By

Jean Heng	Client Services
James Norford	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)

Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

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From: Nathan Cussen [mailto:NCussen@jbsg.com.au]
Sent: Wednesday, 22 January 2014 9:43 AM
To: Jean Heng
Subject: GREEN SQUARE 43182 ADDITIONAL ANALYSIS - LAB BATCH 405482

Hi Jean,

Could I please schedule the following additional TCLP analysis:

- FC043 0.2-0.3 METALS
- FC044 0.1-0.2 METALS
- FC047 1.5-1.7 PAH/METALS
- FC048 0.1-0.2 PAH
- FC042 0.2-0.3 LEAD
- FC042 0.8-1.0 PAH
- FC094 1.7-1.9 PAH
- FC042 0.8-1.0 METALS
- FC094 0.2-0.3 METALS
- FC094 1.7-1.9 METALS

Cheers
Nathan

406281

Nathan Cussen | Senior Environmental Consultant| JBS&G
Sydney | Melbourne | Adelaide | Perth | Brisbane
Level 1, 50 Margaret Street, Sydney NSW 2000
T: 02 8245 0300 | M: 0431 401 022| www.jbsg.com.au
Contaminated Land | Groundwater Remediation | Auditing and Compliance | Assessments and Approvals | Occupational Hygiene and Monitoring

If you would like to send through large electronic files (>25MB), please use JBS&G's secure internet-based file delivery system located at http://dropbox.yousendit.com/JBSG. Place 'Nathan Cussen - Sydney in the subject.
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ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

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Site # 1254 & 14271

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Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Sample Receipt Advice

Company name: **JBS & G (NSW & WA) Pty Ltd**

Contact name: Nathan Cussen
Client job number: ADDITIONAL: GREEN SQUARE BLOCK 15 BCD 43182
COC number: Not provided
Turn around time: 5 Day
Date/Time received: Jan 17, 2014 3:48 PM
Eurofins | mgt reference: **406034**

Sample information

☑ A detailed list of analytes logged into our LIMS, is included in the attached summary table.

☑ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt Sample Receipt : 11 degrees Celsius.

☑ All samples have been received as described on the above COC.

☑ COC has been completed correctly.

☑ Attempt to chill was evident.

☑ Appropriately preserved sample containers have been used.

☑ All samples were received in good condition.

☑ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.

☑ Organic samples had Teflon liners.

☒ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Notes

Additional from report 405730

Contact notes

If you have any questions with respect to these samples please contact:

Jean Heng on Phone : (+61) (2) 9900 8400 or by e.mail: JeanHeng@eurofins.com.au

Results will be delivered electronically via e.mail to Nathan Cussen - ncussen@jbsg.com.au.

Eurofins | mgt Sample Receipt

eurofins | mgt

ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

Melbourne
3-5 Kingston Town Close
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NATA # 1261
Site # 1254 & 14271

Sydney
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Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name:	JBS & G (NSW & WA) Pty Ltd	**Order No.:**		**Received:**	Jan 17, 2014 3:48 PM
Address:	Level 1, 50 Margaret St Sydney NSW 2000	**Report #:**	406034	**Due:**	Jan 24, 2014
		Phone:	02 8245 0300	**Priority:**	5 Day
		Fax:		**Contact Name:**	Nathan Cussen
Client Job No.:	ADDITIONAL: GREEN SQUARE BLOCK 15 BCD 43182				

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	JBS&G Suite 2
Laboratory where analysis is conducted						
Melbourne Laboratory - NATA Site # 1254 & 14271						
Sydney Laboratory - NATA Site # 18217					X	X
Brisbane Laboratory - NATA Site # 20794						
External Laboratory						
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**		
QC08	Jan 14, 2014		Soil	S14-Ja08448	X	X
QC14	Jan 14, 2014		Soil	S14-Ja08449	X	X

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Certificate of Analysis

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Nathan Cussen**

Report **406034-S**
Client Reference ADDITIONAL: GREEN SQUARE BLOCK 15 BCD 43182
Received Date Jan 17, 2014

Client Sample ID **Sample Matrix** **Eurofins | mgt Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**QC08** **Soil** **S14-Ja08448** **Jan 14, 2014**	**QC14** **Soil** **S14-Ja08449** **Jan 14, 2014**
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				
TRH C6-C9	20	mg/kg	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20
TRH C15-C28	50	mg/kg	180	< 50
TRH C29-C36	50	mg/kg	50	< 50
TRH C10-36 (Total)	50	mg/kg	230	< 50
BTEX				
Benzene	0.1	mg/kg	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1
Xylenes - Total	0.3	mg/kg	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	94	89
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50
TRH >C16-C34	100	mg/kg	220	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	0.5	mg/kg	1.1	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5
Anthracene	0.5	mg/kg	3.7	< 0.5
Benz(a)anthracene	0.5	mg/kg	8.4	< 0.5
Benzo(a)pyrene	0.5	mg/kg	8.3	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	6.4	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	3.2	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	4.3	< 0.5
Chrysene	0.5	mg/kg	9.2	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	0.8	< 0.5
Fluoranthene	0.5	mg/kg	22	< 0.5
Fluorene	0.5	mg/kg	1.0	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	3.0	< 0.5
Naphthalene	0.5	mg/kg	0.6	< 0.5

Client Sample ID			QC08	QC14
Sample Matrix			Soil	Soil
Eurofins | mgt Sample No.			S14-Ja08448	S14-Ja08449
Date Sampled			Jan 14, 2014	Jan 14, 2014
Test/Reference	LOR	Unit		
Polycyclic Aromatic Hydrocarbons				
Phenanthrene	0.5	mg/kg	15	< 0.5
Pyrene	0.5	mg/kg	19	< 0.5
Total PAH	0.5	mg/kg	110	< 0.5
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	11	< 0.5
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	11	0.6
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	11	1.2
2-Fluorobiphenyl (surr.)	1	%	85	88
p-Terphenyl-d14 (surr.)	1	%	97	94
Organochlorine Pesticides				
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05
a-BHC	0.05	mg/kg	< 0.05	< 0.05
Aldrin	0.05	mg/kg	0.22	0.25
b-BHC	0.05	mg/kg	< 0.05	< 0.05
d-BHC	0.05	mg/kg	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	0.12	0.07
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05
Methoxychlor	0.2	mg/kg	< 0.2	< 0.2
Toxaphene	1	mg/kg	< 1	< 1
Dibutylchlorendate (surr.)	1	%	86	72
Tetrachloro-m-xylene (surr.)	1	%	86	82
Polychlorinated Biphenyls (PCB)				
Aroclor-1016	0.5	mg/kg	< 0.5	< 0.5
Aroclor-1232	0.5	mg/kg	< 0.5	< 0.5
Aroclor-1242	0.5	mg/kg	< 0.5	< 0.5
Aroclor-1248	0.5	mg/kg	< 0.5	< 0.5
Aroclor-1254	0.5	mg/kg	< 0.5	< 0.5
Aroclor-1260	0.5	mg/kg	< 0.5	< 0.5
Total PCB	0.5	mg/kg	< 0.5	< 0.5
Dibutylchlorendate (surr.)	1	%	86	72
Heavy Metals				
Arsenic	2	mg/kg	2.1	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	< 5
Copper	5	mg/kg	25	< 5
Lead	5	mg/kg	140	6.3
Mercury	0.05	mg/kg	0.74	< 0.05
Nickel	5	mg/kg	< 5	< 5
Zinc	5	mg/kg	110	270

Client Sample ID			QC08	QC14
Sample Matrix			**Soil**	**Soil**
Eurofins | mgt Sample No.			**S14-Ja08448**	**S14-Ja08449**
Date Sampled			**Jan 14, 2014**	**Jan 14, 2014**
Test/Reference	LOR	Unit		
% Moisture	0.1	%	8.8	3.7

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Jan 23, 2014	14 Day
- Method: E004 Petroleum Hydrocarbons (TPH)			
BTEX	Sydney	Jan 23, 2014	14 Day
- Method: E029/E016 BTEX			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jan 23, 2014	14 Day
- Method: LM-LTM-ORG2010			
Polycyclic Aromatic Hydrocarbons	Sydney	Jan 21, 2014	14 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Organochlorine Pesticides	Sydney	Jan 21, 2014	14 Day
- Method: E013 Organochlorine Pesticides (OC)			
Polychlorinated Biphenyls (PCB)	Sydney	Jan 21, 2014	28 Day
- Method: E013 Polychlorinated Biphenyls (PCB)			
Metals M8	Sydney	Jan 21, 2014	28 Day
- Method: E022 Acid Extractable metals in Soils & E026 Mercury			
% Moisture	Sydney	Jan 21, 2014	28 Day
- Method: E005 Moisture Content			

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NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: ADDITIONAL: GREEN SQUARE BLOCK 15 BCD 43182

Order No.:
Report #: 406034
Phone: 02 8245 0300
Fax:

Received: Jan 17, 2014 3:48 PM
Due: Jan 24, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	JBS&G Suite 2
Laboratory where analysis is conducted						
Melbourne Laboratory - NATA Site # 1254 & 14271						
Sydney Laboratory - NATA Site # 18217					X	X
Brisbane Laboratory - NATA Site # 20794						
External Laboratory						
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**		
QC08	Jan 14, 2014		Soil	S14-Ja08448	X	X
QC14	Jan 14, 2014		Soil	S14-Ja08449	X	X

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH C6-C10 less BTEX (F1)	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-BHC	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-BHC	mg/kg	< 0.05			0.05	Pass	
d-BHC	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-BHC (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.2			0.2	Pass	
Toxaphene	mg/kg	< 1			1	Pass	
Method Blank							
Polychlorinated Biphenyls (PCB)							
Aroclor-1016	mg/kg	< 0.5			0.5	Pass	
Aroclor-1232	mg/kg	< 0.5			0.5	Pass	
Aroclor-1242	mg/kg	< 0.5			0.5	Pass	
Aroclor-1248	mg/kg	< 0.5			0.5	Pass	
Aroclor-1254	mg/kg	< 0.5			0.5	Pass	
Aroclor-1260	mg/kg	< 0.5			0.5	Pass	
Total PCB	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.05			0.05	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	85			70-130	Pass	
TRH C10-C14	%	71			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	93			70-130	Pass	
Toluene	%	91			70-130	Pass	
Ethylbenzene	%	90			70-130	Pass	
m&p-Xylenes	%	92			70-130	Pass	
o-Xylene	%	91			70-130	Pass	
Xylenes - Total	%	92			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	72			70-130	Pass	
TRH C6-C10	%	91			70-130	Pass	
TRH >C10-C16	%	74			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	129			70-130	Pass	
Acenaphthylene	%	120			70-130	Pass	
Anthracene	%	118			70-130	Pass	
Benz(a)anthracene	%	83			70-130	Pass	
Benzo(a)pyrene	%	109			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Benzo(b&j)fluoranthene	%	114			70-130	Pass	
Benzo(g.h.i)perylene	%	91			70-130	Pass	
Benzo(k)fluoranthene	%	116			70-130	Pass	
Chrysene	%	107			70-130	Pass	
Dibenz(a.h)anthracene	%	81			70-130	Pass	
Fluoranthene	%	110			70-130	Pass	
Fluorene	%	125			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	82			70-130	Pass	
Naphthalene	%	124			70-130	Pass	
Phenanthrene	%	112			70-130	Pass	
Pyrene	%	107			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	87			70-130	Pass	
4.4'-DDD	%	91			70-130	Pass	
4.4'-DDE	%	88			70-130	Pass	
4.4'-DDT	%	89			70-130	Pass	
a-BHC	%	88			70-130	Pass	
Aldrin	%	89			70-130	Pass	
b-BHC	%	94			70-130	Pass	
d-BHC	%	91			70-130	Pass	
Dieldrin	%	89			70-130	Pass	
Endosulfan I	%	89			70-130	Pass	
Endosulfan II	%	90			70-130	Pass	
Endosulfan sulphate	%	90			70-130	Pass	
Endrin	%	88			70-130	Pass	
Endrin aldehyde	%	90			70-130	Pass	
Endrin ketone	%	89			70-130	Pass	
g-BHC (Lindane)	%	89			70-130	Pass	
Heptachlor	%	86			70-130	Pass	
Heptachlor epoxide	%	88			70-130	Pass	
Hexachlorobenzene	%	76			70-130	Pass	
Methoxychlor	%	89			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls (PCB)							
Aroclor-1260	%	101			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	98			70-130	Pass	
Cadmium	%	97			70-130	Pass	
Chromium	%	102			70-130	Pass	
Copper	%	103			70-130	Pass	
Lead	%	100			70-130	Pass	
Mercury	%	83			70-130	Pass	
Nickel	%	103			70-130	Pass	
Zinc	%	102			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S14-Ja07760	NCP	%	86			70-130	Pass	
TRH C10-C14	S14-Ja08515	NCP	%	71			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S14-Ja07760	NCP	%	97			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Toluene	S14-Ja07760	NCP	%	95			70-130	Pass	
Ethylbenzene	S14-Ja07760	NCP	%	93			70-130	Pass	
m&p-Xylenes	S14-Ja07760	NCP	%	96			70-130	Pass	
o-Xylene	S14-Ja07760	NCP	%	95			70-130	Pass	
Xylenes - Total	S14-Ja07760	NCP	%	95			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S14-Ja07760	NCP	%	76			70-130	Pass	
TRH C6-C10	S14-Ja07760	NCP	%	93			70-130	Pass	
TRH >C10-C16	S14-Ja08515	NCP	%	77			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S14-Ja06407	NCP	%	127			70-130	Pass	
Acenaphthylene	S14-Ja06407	NCP	%	121			70-130	Pass	
Anthracene	S14-Ja06407	NCP	%	117			70-130	Pass	
Benz(a)anthracene	S14-Ja06407	NCP	%	88			70-130	Pass	
Benzo(a)pyrene	S14-Ja06407	NCP	%	116			70-130	Pass	
Benzo(b&j)fluoranthene	S14-Ja06407	NCP	%	102			70-130	Pass	
Benzo(g.h.i)perylene	S14-Ja06407	NCP	%	81			70-130	Pass	
Benzo(k)fluoranthene	S14-Ja06407	NCP	%	121			70-130	Pass	
Chrysene	S14-Ja06407	NCP	%	101			70-130	Pass	
Dibenz(a.h)anthracene	S14-Ja06407	NCP	%	85			70-130	Pass	
Fluoranthene	S14-Ja06407	NCP	%	113			70-130	Pass	
Fluorene	S14-Ja06407	NCP	%	120			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja06407	NCP	%	85			70-130	Pass	
Naphthalene	S14-Ja06407	NCP	%	122			70-130	Pass	
Phenanthrene	S14-Ja06407	NCP	%	112			70-130	Pass	
Pyrene	S14-Ja06407	NCP	%	108			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S14-Ja07789	NCP	%	102			70-130	Pass	
4.4'-DDD	S14-Ja07789	NCP	%	123			70-130	Pass	
4.4'-DDT	S14-Ja07789	NCP	%	100			70-130	Pass	
a-BHC	S14-Ja07789	NCP	%	106			70-130	Pass	
Aldrin	S14-Ja07789	NCP	%	107			70-130	Pass	
b-BHC	S14-Ja07789	NCP	%	126			70-130	Pass	
d-BHC	S14-Ja07789	NCP	%	121			70-130	Pass	
Dieldrin	S14-Ja07789	NCP	%	109			70-130	Pass	
Endosulfan I	S14-Ja07789	NCP	%	104			70-130	Pass	
Endosulfan II	S14-Ja07789	NCP	%	112			70-130	Pass	
Endosulfan sulphate	S14-Ja07789	NCP	%	115			70-130	Pass	
Endrin	S14-Ja07789	NCP	%	117			70-130	Pass	
Endrin aldehyde	S14-Ja07789	NCP	%	111			70-130	Pass	
Endrin ketone	S14-Ja07789	NCP	%	127			70-130	Pass	
g-BHC (Lindane)	S14-Ja07789	NCP	%	115			70-130	Pass	
Heptachlor	S14-Ja07789	NCP	%	112			70-130	Pass	
Heptachlor epoxide	S14-Ja07789	NCP	%	119			70-130	Pass	
Hexachlorobenzene	S14-Ja07789	NCP	%	92			70-130	Pass	
Methoxychlor	S14-Ja07789	NCP	%	84			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls (PCB)				Result 1					
Aroclor-1260	S14-Ja07804	NCP	%	85			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Arsenic	S14-Ja07804	NCP	%	88			70-130	Pass	
Cadmium	S14-Ja07804	NCP	%	101			70-130	Pass	
Chromium	S14-Ja07804	NCP	%	94			70-130	Pass	
Copper	S14-Ja07993	NCP	%	116			70-130	Pass	
Lead	S14-Ja07993	NCP	%	107			70-130	Pass	
Mercury	S14-Ja07804	NCP	%	78			70-130	Pass	
Nickel	S14-Ja07993	NCP	%	106			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S14-Ja07760	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S14-Ja08515	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S14-Ja08515	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S14-Ja08515	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S14-Ja07760	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S14-Ja07760	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S14-Ja07760	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S14-Ja07760	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S14-Ja07760	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total	S14-Ja07760	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S14-Ja07760	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S14-Ja07760	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S14-Ja07760	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S14-Ja08515	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S14-Ja08515	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S14-Ja08515	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S14-Ja06407	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S14-Ja06407	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S14-Ja06407	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S14-Ja06407	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S14-Ja06407	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S14-Ja06407	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S14-Ja06407	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S14-Ja06407	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S14-Ja06407	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S14-Ja06407	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S14-Ja06407	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S14-Ja06407	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja06407	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S14-Ja06407	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S14-Ja06407	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S14-Ja06407	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S14-Ja07789	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S14-Ja07789	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S14-Ja07789	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S14-Ja07789	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	

Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
a-BHC	S14-Ja07789	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S14-Ja07789	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	S14-Ja07789	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-BHC	S14-Ja07789	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S14-Ja07789	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S14-Ja07789	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S14-Ja07789	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S14-Ja07789	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S14-Ja07789	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S14-Ja07789	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S14-Ja07789	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	S14-Ja07789	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S14-Ja07789	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S14-Ja07789	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S14-Ja07789	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S14-Ja07789	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Toxaphene	S14-Ja07789	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls (PCB)				Result 1	Result 2	RPD			
Aroclor-1016	S14-Ja07789	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1232	S14-Ja07789	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1242	S14-Ja07789	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1248	S14-Ja07789	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1254	S14-Ja07789	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1260	S14-Ja07789	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S14-Ja07804	NCP	mg/kg	17	9.8	53	30%	Fail	Q15
Cadmium	S14-Ja07804	NCP	mg/kg	0.70	0.60	2.0	30%	Pass	
Chromium	S14-Ja07804	NCP	mg/kg	29	24	19	30%	Pass	
Copper	S14-Ja07804	NCP	mg/kg	1700	340	130	30%	Fail	Q15
Lead	S14-Ja07804	NCP	mg/kg	870	570	42	30%	Fail	Q15
Mercury	S14-Ja07804	NCP	mg/kg	0.22	0.15	39	30%	Fail	Q15
Nickel	S14-Ja07804	NCP	mg/kg	23	19	16	30%	Pass	
Zinc	S14-Ja07804	NCP	mg/kg	750	660	13	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q15	The RPD reported passes Eurofins | mgt's Acceptance Criteria as stipulated in SOP 05. Refer to Glossary Page of this report for further details

Authorised By

Jean Heng	Client Services
James Norford	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)
Ryan Hamilton	Senior Analyst-Volatile (NSW)

Dr. Bob Symons
Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

Eurofins | mgt shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins | mgt be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

#406034
GA 17/1/14.

From: Nathan Cussen [mailto:NCussen@jbsg.com.au]
Sent: Friday, 17 January 2014 3:48 PM
To: Jean Heng
Subject: Additional Analysis Lab Batch 405730

Hi Jean,

Could I please schedule samples QC08 and QC14 for Combo JB2 on a STD TAT (lab batch 405730). Apologies if I have already asked. The lab batches are slowly starting to get on top of me.

Hope you have a good weekend.

Regards,
Nathan

Nathan Cussen | Senior Environmental Consultant| JBS&G
Sydney | Melbourne | Adelaide | Perth | Brisbane
Level 1, 50 Margaret Street, Sydney NSW 2000
T: 02 8245 0300 | M: 0431 401 022| www.jbsg.com.au
Contaminated Land | Groundwater Remediation | Auditing and Compliance | Assessments and Approvals | **Occupational Hygiene and Monitoring**

If you would like to send through large electronic files (>25MB), please use JBS&G's secure internet-based file delivery system located at http://dropbox.yousendit.com/JBSG. Place `Nathan Cussen - Sydney in the subject.
This email message is intended only for the addressee(s) and contains information that may be confidential and/or copyright. If you are not the intended recipient please delete this email immediately. Use, disclosure or reproduction of this email by anyone other than the intended recipient(s) is strictly prohibited. No representation is made that this email or any attachments are free of viruses and the recipient is responsible for undertaking appropriate virus scanning. Any advice provided in or attached to this email is subject to limitations.

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NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Sample Receipt Advice

Company name: **JBS & G (NSW & WA) Pty Ltd**

Contact name: Nathan Cussen
Client job number: GREEN SQUARE BLOCK 15 BLD 43182
COC number: Not provided
Turn around time: 5 Day
Date/Time received: Jan 16, 2014 3:20 PM
Eurofins | mgt reference: **405815**

Sample information

☑ A detailed list of analytes logged into our LIMS, is included in the attached summary table.

☑ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt Sample Receipt : 11 degrees Celsius.

☑ All samples have been received as described on the above COC.

☑ COC has been completed correctly.

☑ Attempt to chill was evident.

☑ Appropriately preserved sample containers have been used.

☑ All samples were received in good condition.

☑ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.

☑ Organic samples had Teflon liners.

☑ Sample containers for volatile analysis received with zero headspace.

☒ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Contact notes

If you have any questions with respect to these samples please contact:

Jean Heng on Phone : (+61) (2) 9900 8400 or by e.mail: JeanHeng@eurofins.com.au

Results will be delivered electronically via e.mail to Nathan Cussen - ncussen@jbsg.com.au.

Eurofins | mgt Sample Receipt

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ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

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Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: GREEN SQUARE BLOCK 15 BLD 43182

Order No.:
Report #: 405815
Phone: 02 8245 0300
Fax:

Received: Jan 16, 2014 3:20 PM
Due: Jan 23, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	Metals M8 filtered	BTEX	Total Recoverable Hydrocarbons	JBS&G Suite 2
Laboratory where analysis is conducted														
Melbourne Laboratory - NATA Site # 1254 & 14271														
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
External Laboratory														
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**										
FC029 0.6-0.8	Jan 14, 2014		Soil	S14-Ja06734			X							
FC029 1.8-2.0	Jan 14, 2014		Soil	S14-Ja06735			X							
FC029 3.5-3.7	Jan 14, 2014		Soil	S14-Ja06736			X							
FC029 5.0-5.2	Jan 14, 2014		Soil	S14-Ja06737	X	X		X						X
FC029 7.0-7.2	Jan 14, 2014		Soil	S14-Ja06738			X							
FC032 0.5-0.7	Jan 14, 2014		Soil	S14-Ja06739			X							
FC035 0.5-0.7	Jan 14, 2014		Soil	S14-Ja06740	X	X		X	X	X			X	
FC035 2.5-2.7	Jan 14, 2014		Soil	S14-Ja06741	X	X		X	X	X			X	
FC035 3.8-4.0	Jan 14, 2014		Soil	S14-Ja06742	X	X		X						X
FC035 7.0-7.2	Jan 14, 2014		Soil	S14-Ja06743			X							

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Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: GREEN SQUARE BLOCK 15 BLD 43182

Order No.:
Report #: 405815
Phone: 02 8245 0300
Fax:

Received: Jan 16, 2014 3:20 PM
Due: Jan 23, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	Metals M8 filtered	BTEX	Total Recoverable Hydrocarbons	JBS&G Suite 2
Laboratory where analysis is conducted														
Melbourne Laboratory - NATA Site # 1254 & 14271														
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
External Laboratory														
TRIP SPIKE (TS)	Jan 13, 2014		Water	S14-Ja06744								X		
TRIP BLANK (SB)	Jan 13, 2014		Water	S14-Ja06745								X		
RINSATE 150114	Jan 15, 2014		Water	S14-Ja06746					X		X	X	X	

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Certificate of Analysis

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Nathan Cussen**

Report **405815-W**
Client Reference GREEN SQUARE BLOCK 15 BLD 43182
Received Date Jan 16, 2014

Client Sample ID			**TRIP SPIKE (TS)**	**TRIP BLANK (SB)**	**RINSATE 150114**
Sample Matrix			**Water**	**Water**	**Water**
Eurofins | mgt Sample No.			**S14-Ja06744**	**S14-Ja06745**	**S14-Ja06746**
Date Sampled			**Jan 13, 2014**	**Jan 13, 2014**	**Jan 15, 2014**
Test/Reference	LOR	Unit			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions					
TRH C6-C9	0.02	mg/L	-	-	< 0.02
TRH C10-C14	0.05	mg/L	-	-	< 0.05
TRH C15-C28	0.1	mg/L	-	-	< 0.1
TRH C29-C36	0.1	mg/L	-	-	< 0.1
TRH C10-36 (Total)	0.1	mg/L	-	-	< 0.1
BTEX					
Benzene	0.001	mg/L	111%	< 0.001	< 0.001
Toluene	0.001	mg/L	103%	< 0.001	< 0.001
Ethylbenzene	0.001	mg/L	106%	< 0.001	< 0.001
m&p-Xylenes	0.002	mg/L	106%	< 0.002	< 0.002
o-Xylene	0.001	mg/L	105%	< 0.001	< 0.001
Xylenes - Total	0.003	mg/L	105%	< 0.003	< 0.003
4-Bromofluorobenzene (surr.)	1	%	109	77	79
Total Recoverable Hydrocarbons - 2013 NEPM Fractions					
Naphthalene[N02]	0.02	mg/L	-	-	< 0.02
TRH C6-C10	0.02	mg/L	-	-	< 0.02
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	-	-	< 0.02
TRH >C10-C16	0.05	mg/L	-	-	< 0.05
TRH >C10-C16 less Naphthalene (F2)[N01]	0.05	mg/L	-	-	< 0.05
TRH >C16-C34	0.1	mg/L	-	-	< 0.1
TRH >C34-C40	0.1	mg/L	-	-	< 0.1
Polycyclic Aromatic Hydrocarbons					
Acenaphthene	0.001	mg/L	-	-	< 0.001
Acenaphthylene	0.001	mg/L	-	-	< 0.001
Anthracene	0.001	mg/L	-	-	< 0.001
Benz(a)anthracene	0.001	mg/L	-	-	< 0.001
Benzo(a)pyrene	0.001	mg/L	-	-	< 0.001
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	-	-	< 0.001
Benzo(g.h.i)perylene	0.001	mg/L	-	-	< 0.001
Benzo(k)fluoranthene	0.001	mg/L	-	-	< 0.001
Chrysene	0.001	mg/L	-	-	< 0.001
Dibenz(a.h)anthracene	0.001	mg/L	-	-	< 0.001
Fluoranthene	0.001	mg/L	-	-	< 0.001
Fluorene	0.001	mg/L	-	-	< 0.001
Indeno(1.2.3-cd)pyrene	0.001	mg/L	-	-	< 0.001
Naphthalene	0.001	mg/L	-	-	< 0.001

Client Sample ID			TRIP SPIKE (TS)	TRIP BLANK (SB)	RINSATE 150114
Sample Matrix			**Water**	**Water**	**Water**
Eurofins | mgt Sample No.			**S14-Ja06744**	**S14-Ja06745**	**S14-Ja06746**
Date Sampled			**Jan 13, 2014**	**Jan 13, 2014**	**Jan 15, 2014**
Test/Reference	LOR	Unit			
Polycyclic Aromatic Hydrocarbons					
Phenanthrene	0.001	mg/L	-	-	< 0.001
Pyrene	0.001	mg/L	-	-	< 0.001
Total PAH	0.001	mg/L	-	-	< 0.001
2-Fluorobiphenyl (surr.)	1	%	-	-	120
p-Terphenyl-d14 (surr.)	1	%	-	-	129
Heavy Metals					
Arsenic (filtered)	0.001	mg/L	-	-	< 0.001
Cadmium (filtered)	0.0001	mg/L	-	-	< 0.0001
Chromium (filtered)	0.001	mg/L	-	-	< 0.001
Copper (filtered)	0.001	mg/L	-	-	< 0.001
Lead (filtered)	0.001	mg/L	-	-	< 0.001
Mercury (filtered)	0.0001	mg/L	-	-	< 0.0001
Nickel (filtered)	0.001	mg/L	-	-	< 0.001
Zinc (filtered)	0.005	mg/L	-	-	< 0.005

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Jan 20, 2014	7 Day
- Method: E004 Petroleum Hydrocarbons (TPH)			
BTEX	Sydney	Jan 20, 2014	14 Day
- Method: E029/E016 BTEX			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jan 20, 2014	7 Day
- Method: LM-LTM-ORG2010			
Polycyclic Aromatic Hydrocarbons	Sydney	Jan 17, 2014	7 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Metals M8 filtered	Sydney	Jan 17, 2014	28 Day
- Method: E020/E030 Filtered Metals in Water & E026 Mercury			

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NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
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NSW 2000

Client Job No.: GREEN SQUARE BLOCK 15 BLD 43182

Order No.:
Report #: 405815
Phone: 02 8245 0300
Fax:

Received: Jan 16, 2014 3:20 PM
Due: Jan 23, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	Metals M8 filtered	BTEX	Total Recoverable Hydrocarbons	JBS&G Suite 2
Laboratory where analysis is conducted														
Melbourne Laboratory - NATA Site # 1254 & 14271														
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
External Laboratory														
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**										
FC029 0.6-0.8	Jan 14, 2014		Soil	S14-Ja06734			X							
FC029 1.8-2.0	Jan 14, 2014		Soil	S14-Ja06735			X							
FC029 3.5-3.7	Jan 14, 2014		Soil	S14-Ja06736			X							
FC029 5.0-5.2	Jan 14, 2014		Soil	S14-Ja06737	X	X		X						X
FC029 7.0-7.2	Jan 14, 2014		Soil	S14-Ja06738			X							
FC032 0.5-0.7	Jan 14, 2014		Soil	S14-Ja06739			X							
FC035 0.5-0.7	Jan 14, 2014		Soil	S14-Ja06740	X	X		X	X	X			X	
FC035 2.5-2.7	Jan 14, 2014		Soil	S14-Ja06741	X	X		X	X	X			X	
FC035 3.8-4.0	Jan 14, 2014		Soil	S14-Ja06742	X	X		X						X
FC035 7.0-7.2	Jan 14, 2014		Soil	S14-Ja06743			X							

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Client Job No.: GREEN SQUARE BLOCK 15 BLD 43182

Order No.:
Report #: 405815
Phone: 02 8245 0300
Fax:

Received: Jan 16, 2014 3:20 PM
Due: Jan 23, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	Metals M8 filtered	BTEX	Total Recoverable Hydrocarbons	JBS&G Suite 2
Laboratory where analysis is conducted														
Melbourne Laboratory - NATA Site # 1254 & 14271														
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
External Laboratory														
TRIP SPIKE (TS)	Jan 13, 2014		Water	S14-Ja06744								X		
TRIP BLANK (SB)	Jan 13, 2014		Water	S14-Ja06745								X		
RINSATE 150114	Jan 15, 2014		Water	S14-Ja06746					X		X	X	X	

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/L	< 0.02			0.02	Pass	
TRH C10-C14	mg/L	< 0.05			0.05	Pass	
TRH C15-C28	mg/L	< 0.1			0.1	Pass	
TRH C29-C36	mg/L	< 0.1			0.1	Pass	
Method Blank							
BTEX							
Benzene	mg/L	< 0.001			0.001	Pass	
Toluene	mg/L	< 0.001			0.001	Pass	
Ethylbenzene	mg/L	< 0.001			0.001	Pass	
m&p-Xylenes	mg/L	< 0.002			0.002	Pass	
o-Xylene	mg/L	< 0.001			0.001	Pass	
Xylenes - Total	mg/L	< 0.003			0.003	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/L	< 0.02			0.02	Pass	
TRH C6-C10	mg/L	< 0.02			0.02	Pass	
TRH C6-C10 less BTEX (F1)	mg/L	< 0.02			0.02	Pass	
TRH >C10-C16	mg/L	< 0.05			0.05	Pass	
TRH >C16-C34	mg/L	< 0.1			0.1	Pass	
TRH >C34-C40	mg/L	< 0.1			0.1	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/L	< 0.001			0.001	Pass	
Acenaphthylene	mg/L	< 0.001			0.001	Pass	
Anthracene	mg/L	< 0.001			0.001	Pass	
Benz(a)anthracene	mg/L	< 0.001			0.001	Pass	
Benzo(a)pyrene	mg/L	< 0.001			0.001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.001			0.001	Pass	
Benzo(g.h.i)perylene	mg/L	< 0.001			0.001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.001			0.001	Pass	
Chrysene	mg/L	< 0.001			0.001	Pass	
Dibenz(a.h)anthracene	mg/L	< 0.001			0.001	Pass	
Fluoranthene	mg/L	< 0.001			0.001	Pass	
Fluorene	mg/L	< 0.001			0.001	Pass	
Indeno(1.2.3-cd)pyrene	mg/L	< 0.001			0.001	Pass	
Naphthalene	mg/L	< 0.001			0.001	Pass	
Phenanthrene	mg/L	< 0.001			0.001	Pass	
Pyrene	mg/L	< 0.001			0.001	Pass	
Method Blank							
Heavy Metals							
Arsenic (filtered)	mg/L	< 0.001			0.001	Pass	
Cadmium (filtered)	mg/L	< 0.0001			0.0001	Pass	
Chromium (filtered)	mg/L	< 0.001			0.001	Pass	
Copper (filtered)	mg/L	< 0.001			0.001	Pass	
Lead (filtered)	mg/L	< 0.001			0.001	Pass	
Mercury (filtered)	mg/L	< 0.0001			0.0001	Pass	
Nickel (filtered)	mg/L	< 0.001			0.001	Pass	
Zinc (filtered)	mg/L	< 0.005			0.005	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
TRH C6-C9	%	101			70-130	Pass	
TRH C10-C14	%	87			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	109			70-130	Pass	
Toluene	%	104			70-130	Pass	
Ethylbenzene	%	106			70-130	Pass	
m&p-Xylenes	%	101			70-130	Pass	
o-Xylene	%	101			70-130	Pass	
Xylenes - Total	%	101			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	88			70-130	Pass	
TRH C6-C10	%	107			70-130	Pass	
TRH >C10-C16	%	92			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	84			70-130	Pass	
Acenaphthylene	%	88			70-130	Pass	
Anthracene	%	80			70-130	Pass	
Benz(a)anthracene	%	77			70-130	Pass	
Benzo(a)pyrene	%	82			70-130	Pass	
Benzo(b&j)fluoranthene	%	78			70-130	Pass	
Benzo(g.h.i)perylene	%	75			70-130	Pass	
Benzo(k)fluoranthene	%	83			70-130	Pass	
Chrysene	%	83			70-130	Pass	
Dibenz(a.h)anthracene	%	79			70-130	Pass	
Fluoranthene	%	80			70-130	Pass	
Fluorene	%	85			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	79			70-130	Pass	
Naphthalene	%	88			70-130	Pass	
Phenanthrene	%	80			70-130	Pass	
Pyrene	%	80			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic (filtered)	%	98			70-130	Pass	
Cadmium (filtered)	%	99			70-130	Pass	
Chromium (filtered)	%	99			70-130	Pass	
Copper (filtered)	%	96			70-130	Pass	
Lead (filtered)	%	101			70-130	Pass	
Mercury (filtered)	%	93			70-130	Pass	
Nickel (filtered)	%	96			70-130	Pass	
Zinc (filtered)	%	99			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
BTEX				Result 1					
Benzene	S14-Ja07078	NCP	%	92			70-130	Pass	
Toluene	S14-Ja07078	NCP	%	86			70-130	Pass	
Ethylbenzene	S14-Ja07078	NCP	%	92			70-130	Pass	
m&p-Xylenes	S14-Ja07078	NCP	%	92			70-130	Pass	
o-Xylene	S14-Ja07078	NCP	%	91			70-130	Pass	
Xylenes - Total	S14-Ja07078	NCP	%	92			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
TRH C6-C9	S14-Ja07078	NCP	%	101			70-130	Pass	
TRH C10-C14	S14-Ja07043	NCP	%	81			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S14-Ja07078	NCP	%	74			70-130	Pass	
TRH C6-C10	S14-Ja07078	NCP	%	101			70-130	Pass	
TRH >C10-C16	S14-Ja07043	NCP	%	86			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S14-Ja07042	NCP	%	90			70-130	Pass	
Acenaphthylene	S14-Ja07042	NCP	%	88			70-130	Pass	
Anthracene	S14-Ja07042	NCP	%	84			70-130	Pass	
Benz(a)anthracene	S14-Ja07042	NCP	%	80			70-130	Pass	
Benzo(a)pyrene	S14-Ja07042	NCP	%	89			70-130	Pass	
Benzo(b&j)fluoranthene	S14-Ja07042	NCP	%	82			70-130	Pass	
Benzo(g.h.i)perylene	S14-Ja07042	NCP	%	86			70-130	Pass	
Benzo(k)fluoranthene	S14-Ja07042	NCP	%	92			70-130	Pass	
Chrysene	S14-Ja07042	NCP	%	91			70-130	Pass	
Dibenz(a.h)anthracene	S14-Ja07042	NCP	%	83			70-130	Pass	
Fluoranthene	S14-Ja07042	NCP	%	85			70-130	Pass	
Fluorene	S14-Ja07042	NCP	%	92			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja07042	NCP	%	81			70-130	Pass	
Naphthalene	S14-Ja07042	NCP	%	99			70-130	Pass	
Phenanthrene	S14-Ja07042	NCP	%	83			70-130	Pass	
Pyrene	S14-Ja07042	NCP	%	85			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic (filtered)	S14-Ja07076	NCP	%	106			70-130	Pass	
Cadmium (filtered)	S14-Ja07076	NCP	%	108			70-130	Pass	
Chromium (filtered)	S14-Ja07076	NCP	%	101			70-130	Pass	
Copper (filtered)	S14-Ja07076	NCP	%	97			70-130	Pass	
Lead (filtered)	S14-Ja07076	NCP	%	100			70-130	Pass	
Mercury (filtered)	S14-Ja07076	NCP	%	89			70-130	Pass	
Nickel (filtered)	S14-Ja07076	NCP	%	96			70-130	Pass	
Zinc (filtered)	S14-Ja07076	NCP	%	102			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S14-Ja07079	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Toluene	S14-Ja07079	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Ethylbenzene	S14-Ja07079	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
m&p-Xylenes	S14-Ja07079	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
o-Xylene	S14-Ja07079	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Xylenes - Total	S14-Ja07079	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S14-Ja07079	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH C10-C14	S14-Ja07041	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH C15-C28	S14-Ja07041	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH C29-C36	S14-Ja07041	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	

Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S14-Ja07079	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH C6-C10	S14-Ja07079	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S14-Ja07079	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH >C10-C16	S14-Ja07041	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH >C16-C34	S14-Ja07041	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH >C34-C40	S14-Ja07041	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S14-Ja07041	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Acenaphthylene	S14-Ja07041	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Anthracene	S14-Ja07041	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benz(a)anthracene	S14-Ja07041	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(a)pyrene	S14-Ja07041	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(b&j)fluoranthene	S14-Ja07041	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(g.h.i)perylene	S14-Ja07041	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(k)fluoranthene	S14-Ja07041	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chrysene	S14-Ja07041	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibenz(a.h)anthracene	S14-Ja07041	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluoranthene	S14-Ja07041	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluorene	S14-Ja07041	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja07041	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Naphthalene	S14-Ja07041	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Phenanthrene	S14-Ja07041	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Pyrene	S14-Ja07041	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic (filtered)	S14-Ja07075	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Cadmium (filtered)	S14-Ja07075	NCP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Chromium (filtered)	S14-Ja07075	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Copper (filtered)	S14-Ja07075	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Lead (filtered)	S14-Ja07075	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Mercury (filtered)	S14-Ja07075	NCP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel (filtered)	S14-Ja07075	NCP	mg/L	0.0020	0.0020	1.0	30%	Pass	
Zinc (filtered)	S14-Ja07075	NCP	mg/L	0.011	0.011	2.0	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs

Authorised By

Jean Heng	Client Services
James Norford	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)
Ryan Hamilton	Senior Analyst-Volatile (NSW)

Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

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Certificate of Analysis

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Nathan Cussen**

Report **405815-S**
Client Reference GREEN SQUARE BLOCK 15 BLD 43182
Received Date Jan 16, 2014

Client Sample ID **Sample Matrix** **Eurofins | mgt Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**FC029 5.0-5.2** **Soil** **S14-Ja06737** **Jan 14, 2014**	**FC035 0.5-0.7** **Soil** **S14-Ja06740** **Jan 14, 2014**	**FC035 2.5-2.7** **Soil** **S14-Ja06741** **Jan 14, 2014**	**FC035 3.8-4.0** **Soil** **S14-Ja06742** **Jan 14, 2014**
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	57	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	92	< 50	< 50	< 50
TRH C10-36 (Total)	50	mg/kg	150	< 50	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	-	< 0.1
Toluene	0.1	mg/kg	< 0.1	-	-	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	-	-	< 0.1
Xylenes - Total	0.3	mg/kg	< 0.3	-	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	91	-	-	84
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	130	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	1.8	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	2.4	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	2.4	0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	2.5	0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	1.3	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	1.2	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	2.3	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	5.8	0.6	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	1.0	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC029 5.0-5.2 Soil S14-Ja06737 Jan 14, 2014	FC035 0.5-0.7 Soil S14-Ja06740 Jan 14, 2014	FC035 2.5-2.7 Soil S14-Ja06741 Jan 14, 2014	FC035 3.8-4.0 Soil S14-Ja06742 Jan 14, 2014
Polycyclic Aromatic Hydrocarbons						
Phenanthrene	0.5	mg/kg	4.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	5.0	0.6	< 0.5	< 0.5
Total PAH	0.5	mg/kg	30	2.2	< 0.5	< 0.5
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	3.1	0.6	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	3.4	0.9	0.6	0.6
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	3.6	1.2	1.2	1.2
2-Fluorobiphenyl (surr.)	1	%	88	87	86	84
p-Terphenyl-d14 (surr.)	1	%	97	97	94	92
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	-	-	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	-	-	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	-	-	< 0.05
a-BHC	0.05	mg/kg	< 0.05	-	-	< 0.05
Aldrin	0.05	mg/kg	< 0.05	-	-	0.06
b-BHC	0.05	mg/kg	< 0.05	-	-	< 0.05
d-BHC	0.05	mg/kg	< 0.05	-	-	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	-	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	-	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	< 0.05
Methoxychlor	0.2	mg/kg	< 0.2	-	-	< 0.2
Toxaphene	1	mg/kg	< 1	-	-	< 1
Dibutylchlorendate (surr.)	1	%	88	-	-	91
Tetrachloro-m-xylene (surr.)	1	%	62	-	-	71
Polychlorinated Biphenyls (PCB)						
Aroclor-1016	0.5	mg/kg	< 0.5	-	-	< 0.5
Aroclor-1232	0.5	mg/kg	< 0.5	-	-	< 0.5
Aroclor-1242	0.5	mg/kg	< 0.5	-	-	< 0.5
Aroclor-1248	0.5	mg/kg	< 0.5	-	-	< 0.5
Aroclor-1254	0.5	mg/kg	< 0.5	-	-	< 0.5
Aroclor-1260	0.5	mg/kg	< 0.5	-	-	< 0.5
Total PCB	0.5	mg/kg	< 0.5	-	-	< 0.5
Dibutylchlorendate (surr.)	1	%	88	-	-	91
Conductivity (1:5 aqueous extract at 25°C)	5	uS/cm	830	290	300	290
pH (1:5 Aqueous extract)	0.1	units	7.9	8.4	8.5	8.6
% Moisture	0.1	%	19	12	12	13

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC029 5.0-5.2 Soil S14-Ja06737 Jan 14, 2014	FC035 0.5-0.7 Soil S14-Ja06740 Jan 14, 2014	FC035 2.5-2.7 Soil S14-Ja06741 Jan 14, 2014	FC035 3.8-4.0 Soil S14-Ja06742 Jan 14, 2014
Heavy Metals						
Arsenic	2	mg/kg	8.9	5.0	3.7	5.5
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	20	5.8	16	29
Copper	5	mg/kg	52	110	110	430
Lead	5	mg/kg	140	160	81	320
Mercury	0.05	mg/kg	0.35	0.50	0.19	1.4
Nickel	5	mg/kg	8.7	< 5	6.4	8.0
Zinc	5	mg/kg	150	110	120	260

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Jan 20, 2014	14 Day
- Method: E004 Petroleum Hydrocarbons (TPH)			
BTEX	Sydney	Jan 17, 2014	14 Day
- Method: E029/E016 BTEX			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jan 20, 2014	14 Day
- Method: LM-LTM-ORG2010			
Polycyclic Aromatic Hydrocarbons	Sydney	Jan 20, 2014	14 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Organochlorine Pesticides	Sydney	Jan 20, 2014	14 Day
- Method: E013 Organochlorine Pesticides (OC)			
Polychlorinated Biphenyls (PCB)	Sydney	Jan 20, 2014	28 Day
- Method: E013 Polychlorinated Biphenyls (PCB)			
Metals M8	Sydney	Jan 20, 2014	28 Day
- Method: E022 Acid Extractable metals in Soils & E026 Mercury			
Conductivity (1:5 aqueous extract at 25°C)	Sydney	Jan 20, 2014	7 Day
- Method: E032.2 Electrical Conductivity (EC)			
pH (1:5 Aqueous extract)	Sydney	Jan 20, 2014	7 Day
- Method: E018.2 pH			
% Moisture	Sydney	Jan 17, 2014	28 Day
- Method: E005 Moisture Content			

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NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: GREEN SQUARE BLOCK 15 BLD 43182

Order No.:
Report #: 405815
Phone: 02 8245 0300
Fax:

Received: Jan 16, 2014 3:20 PM
Due: Jan 23, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	Metals M8 filtered	BTEX	Total Recoverable Hydrocarbons	JBS&G Suite 2
Laboratory where analysis is conducted														
Melbourne Laboratory - NATA Site # 1254 & 14271														
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
External Laboratory														
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**										
FC029 0.6-0.8	Jan 14, 2014		Soil	S14-Ja06734			X							
FC029 1.8-2.0	Jan 14, 2014		Soil	S14-Ja06735			X							
FC029 3.5-3.7	Jan 14, 2014		Soil	S14-Ja06736			X							
FC029 5.0-5.2	Jan 14, 2014		Soil	S14-Ja06737	X	X		X						X
FC029 7.0-7.2	Jan 14, 2014		Soil	S14-Ja06738			X							
FC032 0.5-0.7	Jan 14, 2014		Soil	S14-Ja06739			X							
FC035 0.5-0.7	Jan 14, 2014		Soil	S14-Ja06740	X	X		X	X	X			X	
FC035 2.5-2.7	Jan 14, 2014		Soil	S14-Ja06741	X	X		X	X	X			X	
FC035 3.8-4.0	Jan 14, 2014		Soil	S14-Ja06742	X	X		X						X
FC035 7.0-7.2	Jan 14, 2014		Soil	S14-Ja06743			X							

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Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	Metals M8 filtered	BTEX	Total Recoverable Hydrocarbons	JBS&G Suite 2
Laboratory where analysis is conducted														
Melbourne Laboratory - NATA Site # 1254 & 14271														
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
External Laboratory														
TRIP SPIKE (TS)	Jan 13, 2014		Water	S14-Ja06744								X		
TRIP BLANK (SB)	Jan 13, 2014		Water	S14-Ja06745								X		
RINSATE 150114	Jan 15, 2014		Water	S14-Ja06746					X		X	X	X	

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH C6-C10 less BTEX (F1)	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-BHC	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-BHC	mg/kg	< 0.05			0.05	Pass	
d-BHC	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-BHC (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.2			0.2	Pass	
Toxaphene	mg/kg	< 1			1	Pass	
Method Blank							
Polychlorinated Biphenyls (PCB)							
Aroclor-1016	mg/kg	< 0.5			0.5	Pass	
Aroclor-1232	mg/kg	< 0.5			0.5	Pass	
Aroclor-1242	mg/kg	< 0.5			0.5	Pass	
Aroclor-1248	mg/kg	< 0.5			0.5	Pass	
Aroclor-1254	mg/kg	< 0.5			0.5	Pass	
Aroclor-1260	mg/kg	< 0.5			0.5	Pass	
Total PCB	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.05			0.05	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	95			70-130	Pass	
TRH C10-C14	%	72			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	93			70-130	Pass	
Toluene	%	88			70-130	Pass	
Ethylbenzene	%	87			70-130	Pass	
m&p-Xylenes	%	94			70-130	Pass	
o-Xylene	%	91			70-130	Pass	
Xylenes - Total	%	93			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	96			70-130	Pass	
TRH C6-C10	%	87			70-130	Pass	
TRH >C10-C16	%	80			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	107			70-130	Pass	
Acenaphthylene	%	103			70-130	Pass	
Anthracene	%	102			70-130	Pass	
Benz(a)anthracene	%	96			70-130	Pass	
Benzo(a)pyrene	%	101			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Benzo(b&j)fluoranthene	%	96			70-130	Pass	
Benzo(g.h.i)perylene	%	101			70-130	Pass	
Benzo(k)fluoranthene	%	105			70-130	Pass	
Chrysene	%	109			70-130	Pass	
Dibenz(a.h)anthracene	%	103			70-130	Pass	
Fluoranthene	%	98			70-130	Pass	
Fluorene	%	105			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	101			70-130	Pass	
Naphthalene	%	107			70-130	Pass	
Phenanthrene	%	98			70-130	Pass	
Pyrene	%	95			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	78			70-130	Pass	
4.4'-DDD	%	110			70-130	Pass	
4.4'-DDE	%	88			70-130	Pass	
4.4'-DDT	%	88			70-130	Pass	
a-BHC	%	83			70-130	Pass	
Aldrin	%	82			70-130	Pass	
b-BHC	%	84			70-130	Pass	
d-BHC	%	89			70-130	Pass	
Dieldrin	%	80			70-130	Pass	
Endosulfan I	%	81			70-130	Pass	
Endosulfan II	%	72			70-130	Pass	
Endosulfan sulphate	%	72			70-130	Pass	
Endrin	%	82			70-130	Pass	
Endrin aldehyde	%	75			70-130	Pass	
Endrin ketone	%	79			70-130	Pass	
g-BHC (Lindane)	%	82			70-130	Pass	
Heptachlor	%	78			70-130	Pass	
Heptachlor epoxide	%	78			70-130	Pass	
Hexachlorobenzene	%	73			70-130	Pass	
Methoxychlor	%	102			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls (PCB)							
Aroclor-1260	%	109			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	92			70-130	Pass	
Cadmium	%	82			70-130	Pass	
Chromium	%	95			70-130	Pass	
Copper	%	100			70-130	Pass	
Lead	%	100			70-130	Pass	
Mercury	%	87			70-130	Pass	
Nickel	%	97			70-130	Pass	
Zinc	%	95			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S14-Ja06737	CP	%	80			70-130	Pass	
TRH C10-C14	S14-Ja06737	CP	%	78			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S14-Ja06737	CP	%	85			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Toluene	S14-Ja06737	CP	%	82			70-130	Pass	
Ethylbenzene	S14-Ja06737	CP	%	80			70-130	Pass	
m&p-Xylenes	S14-Ja06737	CP	%	87			70-130	Pass	
o-Xylene	S14-Ja06737	CP	%	85			70-130	Pass	
Xylenes - Total	S14-Ja06737	CP	%	86			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S14-Ja06737	CP	%	81			70-130	Pass	
TRH C6-C10	S14-Ja06737	CP	%	72			70-130	Pass	
TRH >C10-C16	S14-Ja06737	CP	%	87			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S14-Ja04331	NCP	%	111			70-130	Pass	
Acenaphthylene	S14-Ja04331	NCP	%	108			70-130	Pass	
Anthracene	S14-Ja04331	NCP	%	104			70-130	Pass	
Benz(a)anthracene	S14-Ja04331	NCP	%	102			70-130	Pass	
Benzo(a)pyrene	S14-Ja04331	NCP	%	109			70-130	Pass	
Benzo(b&j)fluoranthene	S14-Ja04331	NCP	%	103			70-130	Pass	
Benzo(g.h.i)perylene	S14-Ja04331	NCP	%	87			70-130	Pass	
Benzo(k)fluoranthene	S14-Ja04331	NCP	%	109			70-130	Pass	
Chrysene	S14-Ja04331	NCP	%	109			70-130	Pass	
Dibenz(a.h)anthracene	S14-Ja04331	NCP	%	95			70-130	Pass	
Fluoranthene	S14-Ja04331	NCP	%	100			70-130	Pass	
Fluorene	S14-Ja04331	NCP	%	109			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja04331	NCP	%	90			70-130	Pass	
Naphthalene	S14-Ja04331	NCP	%	109			70-130	Pass	
Phenanthrene	S14-Ja04331	NCP	%	100			70-130	Pass	
Pyrene	S14-Ja04331	NCP	%	97			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S14-Ja04150	NCP	%	119			70-130	Pass	
4.4'-DDD	S14-Ja04150	NCP	%	128			70-130	Pass	
4.4'-DDE	S14-Ja04150	NCP	%	125			70-130	Pass	
4.4'-DDT	S14-Ja04150	NCP	%	91			70-130	Pass	
a-BHC	S14-Ja04150	NCP	%	127			70-130	Pass	
Aldrin	S14-Ja04150	NCP	%	119			70-130	Pass	
b-BHC	S14-Ja04150	NCP	%	127			70-130	Pass	
d-BHC	S14-Ja04150	NCP	%	130			70-130	Pass	
Dieldrin	S14-Ja04150	NCP	%	119			70-130	Pass	
Endosulfan I	S14-Ja04150	NCP	%	119			70-130	Pass	
Endosulfan II	S14-Ja04150	NCP	%	113			70-130	Pass	
Endosulfan sulphate	S14-Ja04150	NCP	%	116			70-130	Pass	
Endrin	S14-Ja04150	NCP	%	126			70-130	Pass	
Endrin aldehyde	S14-Ja04150	NCP	%	111			70-130	Pass	
Endrin ketone	S14-Ja04150	NCP	%	113			70-130	Pass	
g-BHC (Lindane)	S14-Ja04150	NCP	%	126			70-130	Pass	
Heptachlor	S14-Ja04150	NCP	%	118			70-130	Pass	
Heptachlor epoxide	S14-Ja04150	NCP	%	119			70-130	Pass	
Hexachlorobenzene	S14-Ja04150	NCP	%	97			70-130	Pass	
Methoxychlor	S14-Ja04150	NCP	%	105			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls (PCB)				Result 1					
Aroclor-1260	S14-Ja08499	NCP	%	89			70-130	Pass	
Spike - % Recovery									

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Heavy Metals				Result 1					
Arsenic	S14-Ja06737	CP	%	100			70-130	Pass	
Cadmium	S14-Ja06737	CP	%	97			70-130	Pass	
Chromium	S14-Ja06737	CP	%	98			70-130	Pass	
Copper	S14-Ja06737	CP	%	103			70-130	Pass	
Lead	S14-Ja06821	NCP	%	82			70-130	Pass	
Mercury	S14-Ja06084	NCP	%	78			70-130	Pass	
Nickel	S14-Ja06737	CP	%	105			70-130	Pass	
Zinc	S14-Ja06821	NCP	%	81			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S14-Ja06737	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S14-Ja06737	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S14-Ja06737	CP	mg/kg	57	80	33	30%	Fail	Q15
TRH C29-C36	S14-Ja06737	CP	mg/kg	92	79	15	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S14-Ja06737	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S14-Ja06737	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S14-Ja06737	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S14-Ja06737	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S14-Ja06737	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total	S14-Ja06737	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S14-Ja06737	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S14-Ja06737	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S14-Ja06737	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S14-Ja06737	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S14-Ja06737	CP	mg/kg	130	150	10	30%	Pass	
TRH >C34-C40	S14-Ja06737	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S14-Ja05820	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S14-Ja05820	NCP	mg/kg	1.1	1.0	9.0	30%	Pass	
Anthracene	S14-Ja05820	NCP	mg/kg	2.0	1.9	3.0	30%	Pass	
Benz(a)anthracene	S14-Ja05820	NCP	mg/kg	6.5	7.4	13	30%	Pass	
Benzo(a)pyrene	S14-Ja05820	NCP	mg/kg	11	11	7.0	30%	Pass	
Benzo(b&j)fluoranthene	S14-Ja05820	NCP	mg/kg	11	10	8.0	30%	Pass	
Benzo(g.h.i)perylene	S14-Ja05820	NCP	mg/kg	7.0	7.4	6.0	30%	Pass	
Benzo(k)fluoranthene	S14-Ja05820	NCP	mg/kg	5.1	5.3	3.0	30%	Pass	
Chrysene	S14-Ja05820	NCP	mg/kg	6.6	7.4	12	30%	Pass	
Dibenz(a.h)anthracene	S14-Ja05820	NCP	mg/kg	1.5	1.6	4.0	30%	Pass	
Fluoranthene	S14-Ja05820	NCP	mg/kg	11	12	9.0	30%	Pass	
Fluorene	S14-Ja05820	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja05820	NCP	mg/kg	5.3	5.6	5.0	30%	Pass	
Naphthalene	S14-Ja05820	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S14-Ja05820	NCP	mg/kg	4.3	3.9	10	30%	Pass	
Pyrene	S14-Ja05820	NCP	mg/kg	10	12	13	30%	Pass	

Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S14-Ja06737	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S14-Ja06737	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S14-Ja06737	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S14-Ja06737	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	S14-Ja06737	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S14-Ja06737	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	S14-Ja06737	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-BHC	S14-Ja06737	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S14-Ja06737	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S14-Ja06737	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S14-Ja06737	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S14-Ja06737	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S14-Ja06737	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S14-Ja06737	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S14-Ja06737	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	S14-Ja06737	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S14-Ja06737	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S14-Ja06737	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S14-Ja06737	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S14-Ja06737	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Toxaphene	S14-Ja06737	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls (PCB)				Result 1	Result 2	RPD			
Aroclor-1016	S14-Ja06737	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1232	S14-Ja06737	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1242	S14-Ja06737	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1248	S14-Ja06737	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1254	S14-Ja06737	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1260	S14-Ja06737	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Conductivity (1:5 aqueous extract at 25°C)	S14-Ja06185	NCP	uS/cm	200	210	3.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S14-Ja06737	CP	mg/kg	8.9	11	24	30%	Pass	
Cadmium	S14-Ja06737	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S14-Ja06737	CP	mg/kg	20	21	2.0	30%	Pass	
Copper	S14-Ja06737	CP	mg/kg	52	49	6.0	30%	Pass	
Lead	S14-Ja06737	CP	mg/kg	140	150	2.0	30%	Pass	
Mercury	S14-Ja06084	NCP	mg/kg	0.20	0.14	34	30%	Fail	Q15
Nickel	S14-Ja06737	CP	mg/kg	8.7	13	37	30%	Fail	Q15
Zinc	S14-Ja06737	CP	mg/kg	150	160	7.0	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q15	The RPD reported passes Eurofins | mgt's Acceptance Criteria as stipulated in SOP 05. Refer to Glossary Page of this report for further details

Authorised By

Jean Heng	Client Services
Bob Symons	Senior Analyst-Inorganic (NSW)
James Norford	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)
Ryan Hamilton	Senior Analyst-Volatile (NSW)

Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

Eurofins | mgt shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins | mgt be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

eurofins | mgt
Unit F3-F6 Building F, Parkview Building
16 Mars Road, Lane Cove West
NSW 2066

#405815

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 4382
PROJECT NAME: Green Square Block 15 BLD
SEND REPORT TO: N Cussen SEND INVOICE TO: G NS
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL

LABORATORY BATCH NO.:
SAMPLERS: ETien
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: ncussen@jbsg.com.au
QC LEVEL: NEPM (2013)

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	JB1	JB1T	JB1A	JB2	JB2A	B10	JB2/JBL	JB3/JBL	JB4	JBL	8 Metals	TRH	BTEX	PAH	EC	NOTES:
FC029 0.6-0.8	Soil	14.1.14		Jar + Ice												X	X	X	X	X	
FC029 1.8-2.0																X	X	X	X	X	
FC029 3.5-3.7																			X	X	
FC029 5.0-5.2									X										X	X	
FC029 7.0-7.2																					
FC032 0.5-0.7																					
FC035 0.5-0.7																X	X	X	X	X	
FC035 2.5-2.7																X	X	X	X	X	
FC035 3.8-4.0									X										X	X	
FC035 7.0-7.2																					
Trip Spike (TS)	Water			Vial + Ice																X	
Trip Blank (SB)	Water																			X	
Rinsate 150114	Water	15.1.14		Vial/Bottles + Ice												X	X	X		X	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Nathan DATE: 17.01.14	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE:	
		OF:	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	
			COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - eurofins mgt

JB1 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1T - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos
JB2 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
B10 - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2/JBL - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)
JB3/JBL - TRH/BTEX/PAH/OCP/OPP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)/Asbestos
JB4 - TRH/BTEX/VOC
JBL - TCLP(PAH & 6 Metals)

RECEIVED
16 JAN 2014
BY: Sean S.20

eurofins | mgt

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Murarrie QLD 4172
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NATA # 1261 Site # 20794

Sample Receipt Advice

Company name: **JBS & G (NSW & WA) Pty Ltd**

Contact name: Nathan Cussen
Client job number: GREEN SQUARE BLOCK 15 BCD 43182
COC number: Not provided
Turn around time: 5 Day
Date/Time received: Jan 15, 2014 3:45 PM
Eurofins | mgt reference: **405730**

Sample information

☑ A detailed list of analytes logged into our LIMS, is included in the attached summary table.

☑ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt Sample Receipt : 11 degrees Celsius.

☑ All samples have been received as described on the above COC.

☑ COC has been completed correctly.

☑ Attempt to chill was evident.

☑ Appropriately preserved sample containers have been used.

☑ All samples were received in good condition.

☑ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.

☑ Organic samples had Teflon liners.

☒ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Contact notes

If you have any questions with respect to these samples please contact:

Jean Heng on Phone : (+61) (2) 9900 8400 or by e.mail: JeanHeng@eurofins.com.au

Results will be delivered electronically via e.mail to Nathan Cussen - ncussen@jbsg.com.au.

Eurofins | mgt Sample Receipt

eurofins | mgt

ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

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Site # 1254 & 14271

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NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: GREEN SQUARE BLOCK 15 BCD 43182

Order No.:
Report #: 405730
Phone: 02 8245 0300
Fax:

Received: Jan 15, 2014 3:45 PM
Due: Jan 22, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	Total Recoverable Hydrocarbons	JBS&G Suite 2
Laboratory where analysis is conducted												
Melbourne Laboratory - NATA Site # 1254 & 14271												
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794												
External Laboratory												
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**								
FC030 0.2-0.3	Jan 14, 2014		Soil	S14-Ja05966			X					
FC030 0.8-1.0	Jan 14, 2014		Soil	S14-Ja05967	X	X		X	X	X	X	
FC030 2.8-3.0	Jan 14, 2014		Soil	S14-Ja05968	X	X		X				X
FC031 0.1-0.2	Jan 14, 2014		Soil	S14-Ja05969	X	X		X				X
FC031 0.8-1.0	Jan 14, 2014		Soil	S14-Ja05970			X					
FC031 1.8-2.0	Jan 14, 2014		Soil	S14-Ja05971			X					
FC033 0.2-0.3	Jan 14, 2014		Soil	S14-Ja05972			X					
FC033 0.8-1.0	Jan 14, 2014		Soil	S14-Ja05973	X	X		X				X
FC033 3.0-3.2	Jan 14, 2014		Soil	S14-Ja05974	X	X		X	X	X	X	
FC033 5.8-6.0	Jan 14, 2014		Soil	S14-Ja05975			X					

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Laboratory where analysis is conducted												
Melbourne Laboratory - NATA Site # 1254 & 14271												
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794												
External Laboratory												
FC034 0.2-0.3	Jan 14, 2014		Soil	S14-Ja05976	X	X		X				X
FC034 0.8-1.0	Jan 14, 2014		Soil	S14-Ja05977			X					
FC036 0.2-0.3	Jan 14, 2014		Soil	S14-Ja05978	X	X		X				X
FC036 2.0-2.2	Jan 14, 2014		Soil	S14-Ja05979	X	X		X	X	X	X	
FC036 4.1-4.3	Jan 14, 2014		Soil	S14-Ja05980	X				X	X	X	
FC036 4.5-4.7	Jan 14, 2014		Soil	S14-Ja05981			X					
FC037 0.2-0.3	Jan 14, 2014		Soil	S14-Ja05982	X							X
FC037 1.0-1.2	Jan 14, 2014		Soil	S14-Ja05983			X					
FC046 0.5-0.6	Jan 14, 2014		Soil	S14-Ja05984	X	X		X	X	X	X	
FC046 1.0-1.1	Jan 14, 2014		Soil	S14-Ja05985	X	X		X				X
FC046 2.0-2.1	Jan 14, 2014		Soil	S14-Ja05986			X					

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Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	Total Recoverable Hydrocarbons	JBS&G Suite 2
Laboratory where analysis is conducted												
Melbourne Laboratory - NATA Site # 1254 & 14271												
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794												
External Laboratory												
FC046 3.0-3.1	Jan 14, 2014		Soil	S14-Ja05987	X	X		X				X
FC095 0.5-0.6	Jan 14, 2014		Soil	S14-Ja05988	X				X	X	X	
FC095 1.0-1.1	Jan 14, 2014		Soil	S14-Ja05989	X	X		X				X
FC095 2.0-2.1	Jan 14, 2014		Soil	S14-Ja05990	X	X		X	X	X	X	
FC095 3.0-3.1	Jan 14, 2014		Soil	S14-Ja05991			X					
FC095 4.0-4.1	Jan 14, 2014		Soil	S14-Ja05992			X					
FC095 5.0-5.1	Jan 14, 2014		Soil	S14-Ja05993	X				X	X	X	
QC14	Jan 14, 2014		Soil	S14-Ja05994			X					
QC08	Jan 14, 2014		Soil	S14-Ja05995			X					

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Certificate of Analysis

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Nathan Cussen**

Report **405730-S**
Client Reference GREEN SQUARE BLOCK 15 BCD 43182
Received Date Jan 15, 2014

Client Sample ID			**FC030 0.8-1.0**	**FC030 2.8-3.0**	**FC031 0.1-0.2**	**FC033 0.8-1.0**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**S14-Ja05967**	**S14-Ja05968**	**S14-Ja05969**	**S14-Ja05973**
Date Sampled			**Jan 14, 2014**	**Jan 14, 2014**	**Jan 14, 2014**	**Jan 14, 2014**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	63	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	50	< 50
TRH C10-36 (Total)	50	mg/kg	< 50	< 50	110	< 50
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Xylenes - Total	0.3	mg/kg	-	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	119	113	113
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	0.7	< 0.5
Benz(a)anthracene	0.5	mg/kg	0.9	1.2	1.7	1.1
Benzo(a)pyrene	0.5	mg/kg	1.0	1.3	1.6	1.2
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	0.6	0.6	1.2	1.0
Benzo(g.h.i)perylene	0.5	mg/kg	0.7	0.8	0.9	0.8
Benzo(k)fluoranthene	0.5	mg/kg	0.9	1.3	1.7	1.2
Chrysene	0.5	mg/kg	0.9	1.1	1.4	1.1
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	1.6	2.1	3.3	2.0
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	0.6	0.7	0.8	0.7
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC030 0.8-1.0 Soil S14-Ja05967 Jan 14, 2014	FC030 2.8-3.0 Soil S14-Ja05968 Jan 14, 2014	FC031 0.1-0.2 Soil S14-Ja05969 Jan 14, 2014	FC033 0.8-1.0 Soil S14-Ja05973 Jan 14, 2014
Polycyclic Aromatic Hydrocarbons						
Phenanthrene	0.5	mg/kg	1.0	1.4	2.0	1.2
Pyrene	0.5	mg/kg	1.7	2.1	2.9	2.1
Total PAH	0.5	mg/kg	9.9	13	19	12
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	1.3	1.7	2.2	1.6
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	1.6	1.9	2.4	1.9
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	1.8	2.2	2.7	2.1
2-Fluorobiphenyl (surr.)	1	%	93	91	88	92
p-Terphenyl-d14 (surr.)	1	%	93	92	91	92
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
a-BHC	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	-	< 0.05	0.43	< 0.05
b-BHC	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
d-BHC	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	-	< 0.05	0.20	< 0.05
Endosulfan I	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	-	0.17	< 0.05	0.15
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Methoxychlor	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Toxaphene	1	mg/kg	-	< 1	< 1	< 1
Dibutylchlorendate (surr.)	1	%	-	105	101	121
Tetrachloro-m-xylene (surr.)	1	%	-	75	90	79
Polychlorinated Biphenyls (PCB)						
Aroclor-1016	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Aroclor-1232	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Aroclor-1242	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Aroclor-1248	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Aroclor-1254	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Aroclor-1260	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Total PCB	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Dibutylchlorendate (surr.)	1	%	-	105	101	121
Conductivity (1:5 aqueous extract at 25°C)	5	uS/cm	420	280	230	180
pH (1:5 Aqueous extract)	0.1	units	8.2	8.5	8.6	8.9
% Moisture	0.1	%	11	11	11	13

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC030 0.8-1.0 Soil S14-Ja05967 Jan 14, 2014	FC030 2.8-3.0 Soil S14-Ja05968 Jan 14, 2014	FC031 0.1-0.2 Soil S14-Ja05969 Jan 14, 2014	FC033 0.8-1.0 Soil S14-Ja05973 Jan 14, 2014
Heavy Metals						
Arsenic	2	mg/kg	< 2	< 2	< 2	5.3
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	0.5
Chromium	5	mg/kg	14	29	< 5	44
Copper	5	mg/kg	11	48	27	28
Lead	5	mg/kg	880	690	180	150
Mercury	0.05	mg/kg	0.26	0.30	1.3	0.23
Nickel	5	mg/kg	7.8	7.5	< 5	9.5
Zinc	5	mg/kg	130	200	140	180

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC033 3.0-3.2 Soil S14-Ja05974 Jan 14, 2014	FC034 0.2-0.3 Soil S14-Ja05976 Jan 14, 2014	FC036 0.2-0.3 Soil S14-Ja05978 Jan 14, 2014	FC036 2.0-2.2 Soil S14-Ja05979 Jan 14, 2014
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	41
TRH C15-C28	50	mg/kg	< 50	< 50	98	1300
TRH C29-C36	50	mg/kg	< 50	< 50	110	740
TRH C10-36 (Total)	50	mg/kg	< 50	< 50	210	2100
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	< 0.1	-
Toluene	0.1	mg/kg	-	< 0.1	< 0.1	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	< 0.1	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	< 0.2	-
o-Xylene	0.1	mg/kg	-	< 0.1	< 0.1	-
Xylenes - Total	0.3	mg/kg	-	< 0.3	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	-	113	115	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	93
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	93
TRH >C16-C34	100	mg/kg	< 100	< 100	190	1900
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	390
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	0.6	5.8
Anthracene	0.5	mg/kg	< 0.5	< 0.5	1.2	21
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	2.4	37
Benzo(a)pyrene	0.5	mg/kg	0.5	< 0.5	2.9	29
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	2.0	14
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	2.1	12
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	3.2	29
Chrysene	0.5	mg/kg	< 0.5	< 0.5	2.3	30
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	0.5	4.5
Fluoranthene	0.5	mg/kg	0.8	< 0.5	4.7	75

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC033 3.0-3.2 Soil S14-Ja05974 Jan 14, 2014	FC034 0.2-0.3 Soil S14-Ja05976 Jan 14, 2014	FC036 0.2-0.3 Soil S14-Ja05978 Jan 14, 2014	FC036 2.0-2.2 Soil S14-Ja05979 Jan 14, 2014
Polycyclic Aromatic Hydrocarbons						
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	5.7
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	1.8	12
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	3.5	88
Pyrene	0.5	mg/kg	0.8	< 0.5	4.4	71
Total PAH	0.5	mg/kg	2.1	< 0.5	32	430
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	0.5	< 0.5	4.5	38
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	0.9	0.6	4.5	41
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	1.2	1.2	4.5	43
2-Fluorobiphenyl (surr.)	1	%	90	86	89	109
p-Terphenyl-d14 (surr.)	1	%	91	90	91	121
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	< 0.1	-
4.4'-DDD	0.05	mg/kg	-	< 0.05	< 0.05	-
4.4'-DDE	0.05	mg/kg	-	< 0.05	< 0.05	-
4.4'-DDT	0.05	mg/kg	-	< 0.05	< 0.05	-
a-BHC	0.05	mg/kg	-	< 0.05	< 0.05	-
Aldrin	0.05	mg/kg	-	0.30	< 0.05	-
b-BHC	0.05	mg/kg	-	< 0.05	< 0.05	-
d-BHC	0.05	mg/kg	-	< 0.05	< 0.05	-
Dieldrin	0.05	mg/kg	-	0.09	< 0.05	-
Endosulfan I	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan II	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin ketone	0.05	mg/kg	-	< 0.05	< 0.05	-
g-BHC (Lindane)	0.05	mg/kg	-	< 0.05	< 0.05	-
Heptachlor	0.05	mg/kg	-	< 0.05	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	< 0.05	-
Methoxychlor	0.2	mg/kg	-	< 0.2	< 0.2	-
Toxaphene	1	mg/kg	-	< 1	< 1	-
Dibutylchlorendate (surr.)	1	%	-	96	85	-
Tetrachloro-m-xylene (surr.)	1	%	-	88	76	-
Polychlorinated Biphenyls (PCB)						
Aroclor-1016	0.5	mg/kg	-	< 0.5	< 0.5	-
Aroclor-1232	0.5	mg/kg	-	< 0.5	< 0.5	-
Aroclor-1242	0.5	mg/kg	-	< 0.5	< 0.5	-
Aroclor-1248	0.5	mg/kg	-	< 0.5	< 0.5	-
Aroclor-1254	0.5	mg/kg	-	< 0.5	< 0.5	-
Aroclor-1260	0.5	mg/kg	-	< 0.5	< 0.5	-
Total PCB	0.5	mg/kg	-	< 0.5	< 0.5	-
Dibutylchlorendate (surr.)	1	%	-	96	85	-
Conductivity (1:5 aqueous extract at 25°C)	5	uS/cm	150	130	180	220
pH (1:5 Aqueous extract)	0.1	units	8.6	8.5	8.4	9.9
% Moisture	0.1	%	12	5.9	13	11

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC033 3.0-3.2 Soil S14-Ja05974 Jan 14, 2014	FC034 0.2-0.3 Soil S14-Ja05976 Jan 14, 2014	FC036 0.2-0.3 Soil S14-Ja05978 Jan 14, 2014	FC036 2.0-2.2 Soil S14-Ja05979 Jan 14, 2014
Heavy Metals						
Arsenic	2	mg/kg	3.7	< 2	< 2	7.7
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	2.4
Chromium	5	mg/kg	20	< 5	< 5	16
Copper	5	mg/kg	6.4	< 5	95	100
Lead	5	mg/kg	36	6.7	95	370
Mercury	0.05	mg/kg	0.10	< 0.05	0.41	0.95
Nickel	5	mg/kg	< 5	< 5	< 5	11
Zinc	5	mg/kg	66	330	98	1800

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC036 4.1-4.3 Soil S14-Ja05980 Jan 14, 2014	FC037 0.2-0.3 Soil S14-Ja05982 Jan 14, 2014	FC046 0.5-0.6 Soil S14-Ja05984 Jan 14, 2014	FC046 1.0-1.1 Soil S14-Ja05985 Jan 14, 2014
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	62	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	75	< 50	< 50	74
TRH C10-36 (Total)	50	mg/kg	140	< 50	< 50	74
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	-	< 0.1
Toluene	0.1	mg/kg	-	< 0.1	-	< 0.1
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	< 0.1
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	< 0.2
o-Xylene	0.1	mg/kg	-	< 0.1	-	< 0.1
Xylenes - Total	0.3	mg/kg	-	< 0.3	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	106	-	119
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	120	< 100	< 100	100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	0.6	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	1.6	< 0.5	0.6	0.5
Benzo(a)pyrene	0.5	mg/kg	2.2	< 0.5	0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	1.6	< 0.5	0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	1.6	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	2.1	< 0.5	0.6	0.5
Chrysene	0.5	mg/kg	1.6	< 0.5	0.6	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	2.5	< 0.5	1.1	1.2

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC036 4.1-4.3 Soil S14-Ja05980 Jan 14, 2014	FC037 0.2-0.3 Soil S14-Ja05982 Jan 14, 2014	FC046 0.5-0.6 Soil S14-Ja05984 Jan 14, 2014	FC046 1.0-1.1 Soil S14-Ja05985 Jan 14, 2014
Polycyclic Aromatic Hydrocarbons						
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	1.3	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	1.2	< 0.5	0.6	0.6
Pyrene	0.5	mg/kg	2.6	< 0.5	1.0	1.1
Total PAH	0.5	mg/kg	19	< 0.5	5.5	3.9
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	2.9	< 0.5	0.7	< 0.5
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	3.1	0.6	1.0	0.7
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	3.4	1.2	1.2	1.2
2-Fluorobiphenyl (surr.)	1	%	89	89	88	86
p-Terphenyl-d14 (surr.)	1	%	94	91	87	86
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	0.4	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	< 0.05
a-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
Aldrin	0.05	mg/kg	-	10	-	< 0.05
b-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
d-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
Dieldrin	0.05	mg/kg	-	1.4	-	< 0.05
Endosulfan I	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan II	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin ketone	0.05	mg/kg	-	< 0.05	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	< 0.05	-	< 0.05
Heptachlor	0.05	mg/kg	-	0.71	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	0.06	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	< 0.05
Methoxychlor	0.2	mg/kg	-	< 0.2	-	< 0.2
Toxaphene	1	mg/kg	-	< 1	-	< 1
Dibutylchlorendate (surr.)	1	%	-	102	-	95
Tetrachloro-m-xylene (surr.)	1	%	-	75	-	< 1
Polychlorinated Biphenyls (PCB)						
Aroclor-1016	0.5	mg/kg	-	< 0.5	-	< 0.5
Aroclor-1232	0.5	mg/kg	-	< 0.5	-	< 0.5
Aroclor-1242	0.5	mg/kg	-	< 0.5	-	< 0.5
Aroclor-1248	0.5	mg/kg	-	< 0.5	-	< 0.5
Aroclor-1254	0.5	mg/kg	-	< 0.5	-	< 0.5
Aroclor-1260	0.5	mg/kg	-	< 0.5	-	< 0.5
Total PCB	0.5	mg/kg	-	< 0.5	-	< 0.5
Dibutylchlorendate (surr.)	1	%	-	102	-	95
Conductivity (1:5 aqueous extract at 25°C)	5	uS/cm	-	-	340	210
pH (1:5 Aqueous extract)	0.1	units	-	-	8.0	7.9
% Moisture	0.1	%	12	2.9	16	12

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC036 4.1-4.3 Soil S14-Ja05980 Jan 14, 2014	FC037 0.2-0.3 Soil S14-Ja05982 Jan 14, 2014	FC046 0.5-0.6 Soil S14-Ja05984 Jan 14, 2014	FC046 1.0-1.1 Soil S14-Ja05985 Jan 14, 2014
Heavy Metals						
Arsenic	2	mg/kg	< 2	< 2	9.8	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	6.4	< 0.4
Chromium	5	mg/kg	24	< 5	8.7	5.8
Copper	5	mg/kg	20	13	270	8.4
Lead	5	mg/kg	42	42	650	29
Mercury	0.05	mg/kg	0.18	< 0.05	0.59	0.05
Nickel	5	mg/kg	< 5	< 5	14	< 5
Zinc	5	mg/kg	46	120	2400	300

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC046 3.0-3.1 Soil S14-Ja05987 Jan 14, 2014	FC095 0.5-0.6 Soil S14-Ja05988 Jan 14, 2014	FC095 1.0-1.1 Soil S14-Ja05989 Jan 14, 2014	FC095 2.0-2.1 Soil S14-Ja05990 Jan 14, 2014
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	64	160	< 20
TRH C15-C28	50	mg/kg	< 50	3100	3000	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	780	< 50
TRH C10-36 (Total)	50	mg/kg	< 50	3200	3900	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	-
Toluene	0.1	mg/kg	< 0.1	-	0.2	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	0.4	-
o-Xylene	0.1	mg/kg	< 0.1	-	0.2	-
Xylenes - Total	0.3	mg/kg	< 0.3	-	0.6	-
4-Bromofluorobenzene (surr.)	1	%	125	-	130	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	650	790	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	650	790	< 50
TRH >C16-C34	100	mg/kg	< 100	2700	3200	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	640	< 100
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	0.5	0.6
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC046 3.0-3.1 Soil S14-Ja05987 Jan 14, 2014	FC095 0.5-0.6 Soil S14-Ja05988 Jan 14, 2014	FC095 1.0-1.1 Soil S14-Ja05989 Jan 14, 2014	FC095 2.0-2.1 Soil S14-Ja05990 Jan 14, 2014
Polycyclic Aromatic Hydrocarbons						
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	1.4	0.6
Total PAH	0.5	mg/kg	< 0.5	< 0.5	2.9	1.2
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	< 0.5	< 0.5	0.6	< 0.5
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	0.6	0.6	0.9	0.6
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	1.2	1.2	1.3	1.2
2-Fluorobiphenyl (surr.)	1	%	88	74	77	77
p-Terphenyl-d14 (surr.)	1	%	91	97	98	97
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	< 0.1	-
4.4'-DDD	0.05	mg/kg	< 0.05	-	< 0.05	-
4.4'-DDE	0.05	mg/kg	< 0.05	-	< 0.05	-
4.4'-DDT	0.05	mg/kg	< 0.05	-	< 0.05	-
a-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
Aldrin	0.05	mg/kg	< 0.05	-	< 0.05	-
b-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
d-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
Dieldrin	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan I	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan II	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin ketone	0.05	mg/kg	< 0.05	-	< 0.05	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	< 0.05	-
Heptachlor	0.05	mg/kg	< 0.05	-	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	< 0.05	-
Methoxychlor	0.2	mg/kg	< 0.2	-	< 0.2	-
Toxaphene	1	mg/kg	< 1	-	< 1	-
Dibutylchlorendate (surr.)	1	%	89	-	105	-
Tetrachloro-m-xylene (surr.)	1	%	86	-	71	-
Polychlorinated Biphenyls (PCB)						
Aroclor-1016	0.5	mg/kg	< 0.5	-	< 0.5	-
Aroclor-1232	0.5	mg/kg	< 0.5	-	< 0.5	-
Aroclor-1242	0.5	mg/kg	< 0.5	-	< 0.5	-
Aroclor-1248	0.5	mg/kg	< 0.5	-	< 0.5	-
Aroclor-1254	0.5	mg/kg	< 0.5	-	< 0.5	-
Aroclor-1260	0.5	mg/kg	< 0.5	-	< 0.5	-
Total PCB	0.5	mg/kg	< 0.5	-	< 0.5	-
Dibutylchlorendate (surr.)	1	%	89	-	105	-
Conductivity (1:5 aqueous extract at 25°C)	5	uS/cm	210	-	160	140
pH (1:5 Aqueous extract)	0.1	units	8.3	-	8.4	8.8
% Moisture	0.1	%	3.9	7.7	6.3	9.7

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC046 3.0-3.1 Soil S14-Ja05987 Jan 14, 2014	FC095 0.5-0.6 Soil S14-Ja05988 Jan 14, 2014	FC095 1.0-1.1 Soil S14-Ja05989 Jan 14, 2014	FC095 2.0-2.1 Soil S14-Ja05990 Jan 14, 2014
Heavy Metals						
Arsenic	2	mg/kg	< 2	2.1	3.4	3.3
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	24	16	14
Copper	5	mg/kg	< 5	18	20	20
Lead	5	mg/kg	11	45	89	760
Mercury	0.05	mg/kg	< 0.05	0.06	0.07	0.13
Nickel	5	mg/kg	< 5	26	17	11
Zinc	5	mg/kg	6.9	85	92	130

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC095 5.0-5.1 Soil S14-Ja05993 Jan 14, 2014
Total Recoverable Hydrocarbons - 1999 NEPM Fractions			
TRH C6-C9	20	mg/kg	< 20
TRH C10-C14	20	mg/kg	88
TRH C15-C28	50	mg/kg	2500
TRH C29-C36	50	mg/kg	150
TRH C10-36 (Total)	50	mg/kg	2700
Total Recoverable Hydrocarbons - 2013 NEPM Fractions			
Naphthalene[N02]	0.5	mg/kg	< 0.5
TRH C6-C10	20	mg/kg	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20
TRH >C10-C16	50	mg/kg	560
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	560
TRH >C16-C34	100	mg/kg	2400
TRH >C34-C40	100	mg/kg	110
Polycyclic Aromatic Hydrocarbons			
Acenaphthene	0.5	mg/kg	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5
Anthracene	0.5	mg/kg	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5
Chrysene	0.5	mg/kg	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5
Fluorene	0.5	mg/kg	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5
Naphthalene	0.5	mg/kg	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5
Pyrene	0.5	mg/kg	< 0.5
Total PAH	0.5	mg/kg	< 0.5
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	< 0.5
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	0.6

Client Sample ID			FC095 5.0-5.1
Sample Matrix			**Soil**
Eurofins | mgt Sample No.			**S14-Ja05993**
Date Sampled			**Jan 14, 2014**
Test/Reference	LOR	Unit	
Polycyclic Aromatic Hydrocarbons			
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	1.2
2-Fluorobiphenyl (surr.)	1	%	86
p-Terphenyl-d14 (surr.)	1	%	91
% Moisture	0.1	%	18
Heavy Metals			
Arsenic	2	mg/kg	2.4
Cadmium	0.4	mg/kg	< 0.4
Chromium	5	mg/kg	< 5
Copper	5	mg/kg	5.1
Lead	5	mg/kg	25
Mercury	0.05	mg/kg	< 0.05
Nickel	5	mg/kg	< 5
Zinc	5	mg/kg	26

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Jan 17, 2014	14 Day
- Method: E004 Petroleum Hydrocarbons (TPH)			
BTEX	Sydney	Jan 17, 2014	14 Day
- Method: E029/E016 BTEX			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jan 17, 2014	14 Day
- Method: LM-LTM-ORG2010			
Polycyclic Aromatic Hydrocarbons	Sydney	Jan 17, 2014	14 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Organochlorine Pesticides	Sydney	Jan 17, 2014	14 Day
- Method: E013 Organochlorine Pesticides (OC)			
Polychlorinated Biphenyls (PCB)	Sydney	Jan 17, 2014	28 Day
- Method: E013 Polychlorinated Biphenyls (PCB)			
Metals M8	Sydney	Jan 17, 2014	28 Day
- Method: E022 Acid Extractable metals in Soils & E026 Mercury			
Conductivity (1:5 aqueous extract at 25°C)	Sydney	Jan 17, 2014	7 Day
- Method: E032.2 Electrical Conductivity (EC)			
pH (1:5 Aqueous extract)	Sydney	Jan 17, 2014	7 Day
- Method: E018.2 pH			
% Moisture	Sydney	Jan 17, 2014	28 Day
- Method: E005 Moisture Content			

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Sydney
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Client Job No.: GREEN SQUARE BLOCK 15 BCD 43182

Order No.:
Report #: 405730
Phone: 02 8245 0300
Fax:

Received: Jan 15, 2014 3:45 PM
Due: Jan 22, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	Total Recoverable Hydrocarbons	JBS&G Suite 2
Laboratory where analysis is conducted												
Melbourne Laboratory - NATA Site # 1254 & 14271												
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794												
External Laboratory												
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**								
FC030 0.2-0.3	Jan 14, 2014		Soil	S14-Ja05966			X					
FC030 0.8-1.0	Jan 14, 2014		Soil	S14-Ja05967	X	X		X	X	X	X	
FC030 2.8-3.0	Jan 14, 2014		Soil	S14-Ja05968	X	X		X				X
FC031 0.1-0.2	Jan 14, 2014		Soil	S14-Ja05969	X	X		X				X
FC031 0.8-1.0	Jan 14, 2014		Soil	S14-Ja05970			X					
FC031 1.8-2.0	Jan 14, 2014		Soil	S14-Ja05971			X					
FC033 0.2-0.3	Jan 14, 2014		Soil	S14-Ja05972			X					
FC033 0.8-1.0	Jan 14, 2014		Soil	S14-Ja05973	X	X		X				X
FC033 3.0-3.2	Jan 14, 2014		Soil	S14-Ja05974	X	X		X	X	X	X	
FC033 5.8-6.0	Jan 14, 2014		Soil	S14-Ja05975			X					

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Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: GREEN SQUARE BLOCK 15 BCD 43182

Order No.:
Report #: 405730
Phone: 02 8245 0300
Fax:

Received: Jan 15, 2014 3:45 PM
Due: Jan 22, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	Total Recoverable Hydrocarbons	JBS&G Suite 2
Laboratory where analysis is conducted												
Melbourne Laboratory - NATA Site # 1254 & 14271												
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794												
External Laboratory												
FC034 0.2-0.3	Jan 14, 2014		Soil	S14-Ja05976	X	X		X				X
FC034 0.8-1.0	Jan 14, 2014		Soil	S14-Ja05977			X					
FC036 0.2-0.3	Jan 14, 2014		Soil	S14-Ja05978	X	X		X				X
FC036 2.0-2.2	Jan 14, 2014		Soil	S14-Ja05979	X	X		X	X	X	X	
FC036 4.1-4.3	Jan 14, 2014		Soil	S14-Ja05980	X				X	X	X	
FC036 4.5-4.7	Jan 14, 2014		Soil	S14-Ja05981			X					
FC037 0.2-0.3	Jan 14, 2014		Soil	S14-Ja05982	X							X
FC037 1.0-1.2	Jan 14, 2014		Soil	S14-Ja05983			X					
FC046 0.5-0.6	Jan 14, 2014		Soil	S14-Ja05984	X	X		X	X	X	X	
FC046 1.0-1.1	Jan 14, 2014		Soil	S14-Ja05985	X	X		X				X
FC046 2.0-2.1	Jan 14, 2014		Soil	S14-Ja05986			X					

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Laboratory where analysis is conducted												
Melbourne Laboratory - NATA Site # 1254 & 14271												
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794												
External Laboratory												
FC046 3.0-3.1	Jan 14, 2014		Soil	S14-Ja05987	X	X		X				X
FC095 0.5-0.6	Jan 14, 2014		Soil	S14-Ja05988	X				X	X	X	
FC095 1.0-1.1	Jan 14, 2014		Soil	S14-Ja05989	X	X		X				X
FC095 2.0-2.1	Jan 14, 2014		Soil	S14-Ja05990	X	X		X	X	X	X	
FC095 3.0-3.1	Jan 14, 2014		Soil	S14-Ja05991			X					
FC095 4.0-4.1	Jan 14, 2014		Soil	S14-Ja05992			X					
FC095 5.0-5.1	Jan 14, 2014		Soil	S14-Ja05993	X				X	X	X	
QC14	Jan 14, 2014		Soil	S14-Ja05994			X					
QC08	Jan 14, 2014		Soil	S14-Ja05995			X					

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH C6-C10 less BTEX (F1)	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-BHC	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-BHC	mg/kg	< 0.05			0.05	Pass	
d-BHC	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-BHC (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.2			0.2	Pass	
Toxaphene	mg/kg	< 1			1	Pass	
Method Blank							
Polychlorinated Biphenyls (PCB)							
Aroclor-1016	mg/kg	< 0.5			0.5	Pass	
Aroclor-1232	mg/kg	< 0.5			0.5	Pass	
Aroclor-1242	mg/kg	< 0.5			0.5	Pass	
Aroclor-1248	mg/kg	< 0.5			0.5	Pass	
Aroclor-1254	mg/kg	< 0.5			0.5	Pass	
Aroclor-1260	mg/kg	< 0.5			0.5	Pass	
Total PCB	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.05			0.05	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	94			70-130	Pass	
TRH C10-C14	%	74			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	100			70-130	Pass	
Toluene	%	95			70-130	Pass	
Ethylbenzene	%	94			70-130	Pass	
m&p-Xylenes	%	95			70-130	Pass	
o-Xylene	%	104			70-130	Pass	
Xylenes - Total	%	98			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	81			70-130	Pass	
TRH C6-C10	%	94			70-130	Pass	
TRH >C10-C16	%	79			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	96			70-130	Pass	
Acenaphthylene	%	90			70-130	Pass	
Anthracene	%	91			70-130	Pass	
Benz(a)anthracene	%	88			70-130	Pass	
Benzo(a)pyrene	%	92			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Benzo(b&j)fluoranthene	%	86			70-130	Pass	
Benzo(g.h.i)perylene	%	94			70-130	Pass	
Benzo(k)fluoranthene	%	97			70-130	Pass	
Chrysene	%	94			70-130	Pass	
Dibenz(a.h)anthracene	%	99			70-130	Pass	
Fluoranthene	%	88			70-130	Pass	
Fluorene	%	96			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	98			70-130	Pass	
Naphthalene	%	95			70-130	Pass	
Phenanthrene	%	86			70-130	Pass	
Pyrene	%	86			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	125			70-130	Pass	
4.4'-DDD	%	127			70-130	Pass	
4.4'-DDE	%	121			70-130	Pass	
4.4'-DDT	%	129			70-130	Pass	
a-BHC	%	123			70-130	Pass	
Aldrin	%	124			70-130	Pass	
b-BHC	%	128			70-130	Pass	
d-BHC	%	122			70-130	Pass	
Dieldrin	%	124			70-130	Pass	
Endosulfan I	%	125			70-130	Pass	
Endosulfan II	%	128			70-130	Pass	
Endosulfan sulphate	%	129			70-130	Pass	
Endrin	%	126			70-130	Pass	
Endrin aldehyde	%	125			70-130	Pass	
Endrin ketone	%	130			70-130	Pass	
g-BHC (Lindane)	%	125			70-130	Pass	
Heptachlor	%	120			70-130	Pass	
Heptachlor epoxide	%	125			70-130	Pass	
Hexachlorobenzene	%	101			70-130	Pass	
Methoxychlor	%	126			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls (PCB)							
Aroclor-1260	%	106			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	81			70-130	Pass	
Cadmium	%	79			70-130	Pass	
Chromium	%	82			70-130	Pass	
Copper	%	84			70-130	Pass	
Lead	%	83			70-130	Pass	
Mercury	%	108			70-130	Pass	
Nickel	%	85			70-130	Pass	
Zinc	%	80			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S14-Ja05967	CP	%	88			70-130	Pass	
TRH C10-C14	S14-Ja05967	CP	%	106			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S14-Ja05967	CP	%	94			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Toluene	S14-Ja05967	CP	%	89			70-130	Pass	
Ethylbenzene	S14-Ja05967	CP	%	89			70-130	Pass	
m&p-Xylenes	S14-Ja05967	CP	%	89			70-130	Pass	
o-Xylene	S14-Ja05967	CP	%	98			70-130	Pass	
Xylenes - Total	S14-Ja05967	CP	%	92			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S14-Ja05967	CP	%	73			70-130	Pass	
TRH C6-C10	S14-Ja05967	CP	%	86			70-130	Pass	
TRH >C10-C16	S14-Ja05967	CP	%	118			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Lead	S14-Ja04828	NCP	%	100			70-130	Pass	
Mercury	S14-Ja05967	CP	%	105			70-130	Pass	
Zinc	S14-Ja04828	NCP	%	121			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S14-Ja05984	CP	%	87			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S14-Ja05984	CP	%	94			70-130	Pass	
Toluene	S14-Ja05984	CP	%	88			70-130	Pass	
Ethylbenzene	S14-Ja05984	CP	%	88			70-130	Pass	
m&p-Xylenes	S14-Ja05984	CP	%	89			70-130	Pass	
o-Xylene	S14-Ja05984	CP	%	99			70-130	Pass	
Xylenes - Total	S14-Ja05984	CP	%	92			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S14-Ja05984	CP	%	74			70-130	Pass	
TRH C6-C10	S14-Ja05984	CP	%	87			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S14-Ja05984	CP	%	99			70-130	Pass	
Acenaphthylene	S14-Ja05984	CP	%	89			70-130	Pass	
Anthracene	S14-Ja05984	CP	%	85			70-130	Pass	
Benz(a)anthracene	S14-Ja05984	CP	%	80			70-130	Pass	
Benzo(a)pyrene	S14-Ja05984	CP	%	79			70-130	Pass	
Benzo(b&j)fluoranthene	S14-Ja05984	CP	%	82			70-130	Pass	
Benzo(g.h.i)perylene	S14-Ja05984	CP	%	71			70-130	Pass	
Benzo(k)fluoranthene	S14-Ja05984	CP	%	79			70-130	Pass	
Chrysene	S14-Ja05984	CP	%	84			70-130	Pass	
Dibenz(a.h)anthracene	S14-Ja05984	CP	%	86			70-130	Pass	
Fluoranthene	S14-Ja05984	CP	%	78			70-130	Pass	
Fluorene	S14-Ja05984	CP	%	99			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja05984	CP	%	77			70-130	Pass	
Naphthalene	S14-Ja05984	CP	%	85			70-130	Pass	
Phenanthrene	S14-Ja05984	CP	%	87			70-130	Pass	
Pyrene	S14-Ja05984	CP	%	78			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S14-Ja05984	CP	%	88			70-130	Pass	
Cadmium	S14-Ja05984	CP	%	84			70-130	Pass	
Chromium	S14-Ja05984	CP	%	94			70-130	Pass	
Copper	S14-Ja05984	CP	%	116			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Mercury	S14-Ja05984	CP	%	95			70-130	Pass	
Nickel	S14-Ja05984	CP	%	87			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S14-Ja05667	NCP	%	98			70-130	Pass	
4.4'-DDD	S14-Ja05667	NCP	%	105			70-130	Pass	
4.4'-DDE	S14-Ja05667	NCP	%	98			70-130	Pass	
4.4'-DDT	S14-Ja05667	NCP	%	95			70-130	Pass	
a-BHC	S14-Ja05667	NCP	%	97			70-130	Pass	
Aldrin	S14-Ja05667	NCP	%	97			70-130	Pass	
b-BHC	S14-Ja05667	NCP	%	103			70-130	Pass	
d-BHC	S14-Ja05667	NCP	%	99			70-130	Pass	
Dieldrin	S14-Ja05667	NCP	%	99			70-130	Pass	
Endosulfan I	S14-Ja05667	NCP	%	100			70-130	Pass	
Endosulfan II	S14-Ja05667	NCP	%	100			70-130	Pass	
Endosulfan sulphate	S14-Ja05667	NCP	%	102			70-130	Pass	
Endrin	S14-Ja05667	NCP	%	97			70-130	Pass	
Endrin aldehyde	S14-Ja05667	NCP	%	102			70-130	Pass	
Endrin ketone	S14-Ja05667	NCP	%	101			70-130	Pass	
g-BHC (Lindane)	S14-Ja05667	NCP	%	96			70-130	Pass	
Heptachlor	S14-Ja05667	NCP	%	95			70-130	Pass	
Heptachlor epoxide	S14-Ja05667	NCP	%	97			70-130	Pass	
Hexachlorobenzene	S14-Ja05667	NCP	%	80			70-130	Pass	
Methoxychlor	S14-Ja05667	NCP	%	98			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S14-Ja05967	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S14-Ja05967	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S14-Ja05967	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S14-Ja05967	CP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S14-Ja05967	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S14-Ja05967	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S14-Ja05967	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S14-Ja05967	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S14-Ja05967	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total	S14-Ja05967	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S14-Ja05967	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S14-Ja05967	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S14-Ja05967	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S14-Ja05967	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S14-Ja05967	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S14-Ja05967	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S14-Ja04828	NCP	mg/kg	2.2	3.3	41	30%	Fail	Q15
Cadmium	S14-Ja04828	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S14-Ja04828	NCP	mg/kg	5.4	6.0	11	30%	Pass	
Copper	S14-Ja04828	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
Lead	S14-Ja04828	NCP	mg/kg	11	13	13	30%	Pass	

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Mercury	S14-Ja05967	CP	mg/kg	0.26	0.21	21	30%	Pass	
Nickel	S14-Ja04828	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
Zinc	S14-Ja04828	NCP	mg/kg	33	36	9.0	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S14-Ja05968	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S14-Ja05968	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S14-Ja05968	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S14-Ja05968	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	S14-Ja05968	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S14-Ja05968	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	S14-Ja05968	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-BHC	S14-Ja05968	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S14-Ja05968	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S14-Ja05968	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S14-Ja05968	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S14-Ja05968	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S14-Ja05968	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S14-Ja05968	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S14-Ja05968	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	S14-Ja05968	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S14-Ja05968	CP	mg/kg	0.17	0.10	47	30%	Fail	Q15
Heptachlor epoxide	S14-Ja05968	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S14-Ja05968	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S14-Ja05968	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Toxaphene	S14-Ja05968	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls (PCB)				Result 1	Result 2	RPD			
Aroclor-1016	S14-Ja05968	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1232	S14-Ja05968	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1242	S14-Ja05968	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1248	S14-Ja05968	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1254	S14-Ja05968	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1260	S14-Ja05968	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Conductivity (1:5 aqueous extract at 25°C)	S14-Ja05979	CP	uS/cm	220	220	2.0	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S14-Ja05984	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S14-Ja05984	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S14-Ja05984	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S14-Ja05984	CP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S14-Ja05984	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S14-Ja05984	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S14-Ja05984	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S14-Ja05984	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S14-Ja05984	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total	S14-Ja05984	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	

Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S14-Ja05984	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S14-Ja05984	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S14-Ja05984	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S14-Ja05984	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S14-Ja05984	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S14-Ja05984	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S14-Ja05984	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S14-Ja05984	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S14-Ja05984	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S14-Ja05984	CP	mg/kg	0.6	< 0.5	19	30%	Pass	
Benzo(a)pyrene	S14-Ja05984	CP	mg/kg	0.5	< 0.5	21	30%	Pass	
Benzo(b&j)fluoranthene	S14-Ja05984	CP	mg/kg	0.5	< 0.5	27	30%	Pass	
Benzo(g.h.i)perylene	S14-Ja05984	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S14-Ja05984	CP	mg/kg	0.6	0.5	19	30%	Pass	
Chrysene	S14-Ja05984	CP	mg/kg	0.6	< 0.5	19	30%	Pass	
Dibenz(a.h)anthracene	S14-Ja05984	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S14-Ja05984	CP	mg/kg	1.1	0.9	21	30%	Pass	
Fluorene	S14-Ja05984	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja05984	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S14-Ja05984	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S14-Ja05984	CP	mg/kg	0.6	0.6	<1	30%	Pass	
Pyrene	S14-Ja05984	CP	mg/kg	1.0	0.9	15	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q15	The RPD reported passes Eurofins | mgt's Acceptance Criteria as stipulated in SOP 05. Refer to Glossary Page of this report for further details

Authorised By

Jean Heng	Client Services
Bob Symons	Senior Analyst-Inorganic (NSW)
James Norford	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)
Ryan Hamilton	Senior Analyst-Volatile (NSW)

Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

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Unit F3-F6 Building F, Parkview Building
16 Mars Road, Lane Cove West
NSW 2066

Page 1 of 2

*405730

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 47182
PROJECT NAME: Green Square Block 15 BCO
SEND REPORT TO: N Cutten SEND INVOICE TO: C Ng
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: Ellen
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: ncutten@jbsg.com.au
QC LEVEL: NEPM (2013)

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	JB1	JB1T	JB1A	JB2	JB2A	B10	JB2/JBL	JB3/JBL	JB4	JBL	Metals 8	TRH	BTEX	PAH	OC	NOTES:
FC035 0.2-0.3	Soil	14.1.14		Jar + Ice																	
FC035 0.8-1.0																X	X	X	X	X	
FC035 2.8-3.0									X										X	X	?
FC031 0.1-0.2									X										X	X	?
FC031 0.8-1.0																			X	X	
FC031 1.8-2.0																					
FC033 0.2-0.3																					
FC033 0.8-1.0																					
FC033 3.0-3.2									X										X	X	
FC033 5.8-6.0																X	X	X	X	X	
FC034 0.2-0.3																					
FC034 0.8-1.0									X										X	X	
FC036 0.2-0.3																					
FC036 2.0-2.2									X										X	X	
FC036 4.1-4.3																X	X	X	X	X	
FC036 4.5-4.7																X	X	X			
FC037 0.2-0.3																					
FC037 1.0-1.2									X												
FC046 0.5-0.6																					
																X	X	X	X	X	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Nathan DATE: 15.01.14 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C
NAME: DATE: OF:	CONSIGNMENT NOTE NO. TRANSPORT CO	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 - Chain of Custody - eurofins mgt

JB1 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1T - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos
JB2 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
B10 - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2/JBL - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)
JB3/JBL - TRH/BTEX/PAH/OCP/OPP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)/Asbestos
JB4 - TRH/BTEX/VOC
JBL - TCLP(PAH & 6 Metals)

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NSW 2066

Page 2 of 2

#405730

CHAIN OF CUSTODY

JBSsG

PROJECT NO.: 43182
PROJECT NAME: Green Square Block 15 BCD
SEND REPORT TO: N Cussen SEND INVOICE TO: G Ng
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: [redacted] Ellen
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: ncussen@jbsg.com.au
QC LEVEL: NEPM (2013)

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	JB1	JB1T	JB1A	JB2	JB2A	B10	JB2/JBL	JB3/JBL	JB4	JBL	8 Metals	TRH	PAH	OH	EC	NOTES:
FC046 1.0-1.1	Soil	14.1.14		Ice + Ice					X										X	X	
FC046 2.0-2.1																					
FC046 3.0-3.1									X										X	X	
FC095 0.5-0.6																X	X	X			
FC095 1.0-1.1									X										X	X	
FC095 2.0-2.1																X	X	X	X	X	
FC095 3.0-3.1																					
FC095 4.0-4.1																X	X	X			
FC095 5.0-5.1																					
QC14																X	X	X			
QC08																					

RELINQUISHED BY:
NAME: Nathan DATE: 15.01.14
OF: JBS&G

NAME: DATE:
OF:

METHOD OF SHIPMENT:
CONSIGNMENT NOTE NO.
TRANSPORT CO.

CONSIGNMENT NOTE NO.
TRANSPORT CO

RECEIVED BY:
NAME:
DATE:
OF:

NAME: DATE:
OF:

FOR RECEIVING LAB USE ONLY:
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C

COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - eurofins mgt

JB1 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1T - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos
JB2 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
B10 - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2/JBL - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)
JB3/JBL - TRH/BTEX/PAH/OCP/OPP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)/Asbestos
JB4 - TRH/BTEX/VOC
JBL - TCLP(PAH & 6 Metals)

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BY: Sam O 3:45

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ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

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3-5 Kingston Town Close
Oakleigh Vic 3166
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Sample Receipt Advice

Company name: **JBS & G (NSW & WA) Pty Ltd**

Contact name: Nathan Cussen
Client job number: GREEN SQUARE BLOCK B, C, D 43182
COC number: Not provided
Turn around time: 5 Day
Date/Time received: Jan 13, 2014 5:00 PM
Eurofins | mgt reference: **405482**

Sample information

☑ A detailed list of analytes logged into our LIMS, is included in the attached summary table.

☑ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt Sample Receipt : 7 degrees Celsius.

☑ All samples have been received as described on the above COC.

☑ COC has been completed correctly.

☑ Attempt to chill was evident.

☑ Appropriately preserved sample containers have been used.

☑ All samples were received in good condition.

☑ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.

☑ Organic samples had Teflon liners.

☒ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Contact notes

If you have any questions with respect to these samples please contact:

Jean Heng on Phone : (+61) (2) 9900 8400 or by e.mail: JeanHeng@eurofins.com.au

Results will be delivered electronically via e.mail to Nathan Cussen - ncussen@jbsg.com.au.

Eurofins | mgt Sample Receipt

eurofins | mgt

ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

Melbourne
3-5 Kingston Town Close
Oakleigh VIC 3166
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

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NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: GREEN SQUARE BLOCK B, C, D 43182

Order No.:
Report #: 405482
Phone: 02 8245 0300
Fax:

Received: Jan 13, 2014 5:00 PM
Due: Jan 21, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	Total Recoverable Hydrocarbons	Foreign Materials - ENM	JBS&G Suite 2
Laboratory where analysis is conducted													
Melbourne Laboratory - NATA Site # 1254 & 14271													
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794													
External Laboratory													
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**									
FC043 0.2-0.3	Jan 10, 2014		Soil	S14-Ja03850	X	X		X	X	X	X		
FC043 0.5-0.8	Jan 10, 2014		Soil	S14-Ja03851	X	X		X				X	X
FC043 1.8-2.0	Jan 10, 2014		Soil	S14-Ja03852			X						
FC043 2.8-3.0	Jan 10, 2014		Soil	S14-Ja03853			X						
FC044 0.1-0.2	Jan 09, 2014		Soil	S14-Ja03854	X								X
FC044 1.0-1.2	Jan 09, 2014		Soil	S14-Ja03855			X						
FC044 2.5-2.7	Jan 09, 2014		Soil	S14-Ja03856	X								X
FC045 0.1-0.3	Jan 10, 2014		Soil	S14-Ja03857			X						
FC045 1.5-1.8	Jan 10, 2014		Soil	S14-Ja03858			X						
FC047 0.1-0.2	Jan 09, 2014		Soil	S14-Ja03859	X				X	X	X		

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NATA # 1261 Site # 18217

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Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: GREEN SQUARE BLOCK B, C, D 43182

Order No.:
Report #: 405482
Phone: 02 8245 0300
Fax:

Received: Jan 13, 2014 5:00 PM
Due: Jan 21, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	Total Recoverable Hydrocarbons	Foreign Materials - ENM	JBS&G Suite 2
Laboratory where analysis is conducted													
Melbourne Laboratory - NATA Site # 1254 & 14271													
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794													
External Laboratory													
FC047 0.5-0.7	Jan 09, 2014		Soil	S14-Ja03860			X						
FC047 1.5-1.7	Jan 09, 2014		Soil	S14-Ja03861	X								X
FC047 2.8-3.0	Jan 09, 2014		Soil	S14-Ja03862			X						
FC048 0.1-0.2	Jan 09, 2014		Soil	S14-Ja03863	X								X
FC048 0.5-0.7	Jan 09, 2014		Soil	S14-Ja03864			X						
FC048 1.0-1.2	Jan 09, 2014		Soil	S14-Ja03865			X						
FC048 1.8-2.0	Jan 09, 2014		Soil	S14-Ja03866	X				X	X	X		
FC048 2.9-3.1	Jan 09, 2014		Soil	S14-Ja03867			X						
FC110 0.1-0.2	Jan 09, 2014		Soil	S14-Ja03868	X								X
FC110 1.1-1.3	Jan 09, 2014		Soil	S14-Ja03869			X						
FC110 2.7-2.9	Jan 09, 2014		Soil	S14-Ja03870			X						

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Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	Total Recoverable Hydrocarbons	Foreign Materials - ENM	JBS&G Suite 2
Laboratory where analysis is conducted													
Melbourne Laboratory - NATA Site # 1254 & 14271													
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794													
External Laboratory													
FC038 0.1-0.2	Jan 10, 2014		Soil	S14-Ja03871	X	X		X					X
FC038 0.3-0.5	Jan 10, 2014		Soil	S14-Ja03872			X						
FC038 2.7-2.9	Jan 10, 2014		Soil	S14-Ja03873			X						
FC040 0.2-0.3	Jan 10, 2014		Soil	S14-Ja03874	X								X
FC040 1.1-1.3	Jan 10, 2014		Soil	S14-Ja03875			X						
FC041 0.2-0.3	Jan 10, 2014		Soil	S14-Ja03876			X						
FC041 1.5-1.7	Jan 10, 2014		Soil	S14-Ja03877			X						
FC042 0.2-0.3	Jan 10, 2014		Soil	S14-Ja03878	X	X		X					X
FC042 0.8-1.0	Jan 10, 2014		Soil	S14-Ja03879	X				X	X	X		
FC042 1.8-2.0	Jan 10, 2014		Soil	S14-Ja03880			X						
FC042 3.0-3.2	Jan 10, 2014		Soil	S14-Ja03881			X						

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Phone: 02 8245 0300
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Received: Jan 13, 2014 5:00 PM
Due: Jan 21, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	Total Recoverable Hydrocarbons	Foreign Materials - ENM	JBS&G Suite 2
Laboratory where analysis is conducted													
Melbourne Laboratory - NATA Site # 1254 & 14271													
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794													
External Laboratory													
FC094 0.2-0.3	Jan 10, 2014		Soil	S14-Ja03882	X				X	X	X		
FC094 0.6-0.8	Jan 10, 2014		Soil	S14-Ja03883			X						
FC094 1.7-1.9	Jan 10, 2014		Soil	S14-Ja03884	X				X	X	X		
FC094 2.8-3.0	Jan 10, 2014		Soil	S14-Ja03885			X						
FC094 4.1-4.3	Jan 10, 2014		Soil	S14-Ja03886			X						
FC039 0.2-0.3	Jan 10, 2014		Soil	S14-Ja03887	X								X
FC039 1.1-1.3	Jan 10, 2014		Soil	S14-Ja03888			X						

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Certificate of Analysis

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Nathan Cussen**

Report **405482-S**
Client Reference GREEN SQUARE BLOCK B, C, D 43182
Received Date Jan 13, 2014

Client Sample ID **Sample Matrix** **Eurofins | mgt Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**FC043 0.2-0.3** **Soil** **S14-Ja03850** **Jan 10, 2014**	**FC043 0.5-0.8** **Soil** **S14-Ja03851** **Jan 10, 2014**	**FC044 0.1-0.2** **Soil** **S14-Ja03854** **Jan 09, 2014**	**FC044 2.5-2.7** **Soil** **S14-Ja03856** **Jan 09, 2014**
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Xylenes - Total	0.3	mg/kg	-	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	90	84	86
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	0.7	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	0.7	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	0.7	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	0.6	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	0.7	< 0.5	1.4	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC043 0.2-0.3 Soil S14-Ja03850 Jan 10, 2014	FC043 0.5-0.8 Soil S14-Ja03851 Jan 10, 2014	FC044 0.1-0.2 Soil S14-Ja03854 Jan 09, 2014	FC044 2.5-2.7 Soil S14-Ja03856 Jan 09, 2014
Polycyclic Aromatic Hydrocarbons						
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	0.7	< 0.5
Pyrene	0.5	mg/kg	0.6	< 0.5	1.2	< 0.5
Total PAH	0.5	mg/kg	1.3	< 0.5	6.0	< 0.5
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	< 0.5	< 0.5	0.8	< 0.5
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	0.6	0.6	1.1	0.6
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	1.2	1.2	1.4	1.2
2-Fluorobiphenyl (surr.)	1	%	89	91	88	91
p-Terphenyl-d14 (surr.)	1	%	89	97	94	95
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
a-BHC	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
b-BHC	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
d-BHC	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Methoxychlor	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Toxaphene	1	mg/kg	-	< 1	< 1	< 1
Dibutylchlorendate (surr.)	1	%	-	115	117	89
Tetrachloro-m-xylene (surr.)	1	%	-	97	97	75
Polychlorinated Biphenyls (PCB)						
Aroclor-1016	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Aroclor-1232	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Aroclor-1242	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Aroclor-1248	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Aroclor-1254	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Aroclor-1260	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Total PCB	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Dibutylchlorendate (surr.)	1	%	-	115	117	89
Conductivity (1:5 aqueous extract at 25°C)	5	uS/cm	220	110	-	-
pH (1:5 Aqueous extract)	0.1	units	8.5	7.4	-	-
% Moisture	0.1	%	7.9	17	21	1.7
Initial Weight	0.01	kg	-	5.4	-	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC043 0.2-0.3 Soil S14-Ja03850 Jan 10, 2014	FC043 0.5-0.8 Soil S14-Ja03851 Jan 10, 2014	FC044 0.1-0.2 Soil S14-Ja03854 Jan 09, 2014	FC044 2.5-2.7 Soil S14-Ja03856 Jan 09, 2014
Heavy Metals						
Arsenic	2	mg/kg	< 2	< 2	2.8	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	0.6	< 0.4
Chromium	5	mg/kg	< 5	5.3	5.6	< 5
Copper	5	mg/kg	30	< 5	81	< 5
Lead	5	mg/kg	100	< 5	290	< 5
Mercury	0.05	mg/kg	0.15	< 0.05	0.13	< 0.05
Nickel	5	mg/kg	< 5	< 5	7.0	< 5
Zinc	5	mg/kg	130	< 5	280	< 5
Foreign Material - Type I						
Metal*	0.1	%	-	< 0.1	-	-
Glass*	0.1	%	-	< 0.1	-	-
Asphalt*	0.1	%	-	< 0.1	-	-
Stone*	0.1	%	-	< 0.1	-	-
Ceramic and slag (other than blast furnace slag)*	0.1	%	-	< 0.1	-	-
Foreign Material - Type II						
Plaster*	0.1	%	-	< 0.1	-	-
Clay lumps and other friable material*	0.1	%	-	< 0.1	-	-
Foreign Material - Type III						
Rubber*	0.05	%	-	< 0.05	-	-
Plastic*	0.05	%	-	< 0.05	-	-
Bitumen*	0.05	%	-	< 0.05	-	-
Paper*	0.05	%	-	< 0.05	-	-
Cloth*	0.05	%	-	< 0.05	-	-
Paint*	0.05	%	-	< 0.05	-	-
Wood and other vegetable matter*	0.05	%	-	< 0.05	-	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC047 0.1-0.2 Soil S14-Ja03859 Jan 09, 2014	FC047 1.5-1.7 Soil S14-Ja03861 Jan 09, 2014	FC048 0.1-0.2 Soil S14-Ja03863 Jan 09, 2014	FC048 1.8-2.0 Soil S14-Ja03866 Jan 09, 2014
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	75	120	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	66	< 50
TRH C10-36 (Total)	50	mg/kg	< 50	75	190	< 50
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	< 0.1	-
Toluene	0.1	mg/kg	-	< 0.1	< 0.1	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	< 0.1	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	< 0.2	-
o-Xylene	0.1	mg/kg	-	< 0.1	< 0.1	-
Xylenes - Total	0.3	mg/kg	-	< 0.3	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	-	92	90	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC047 0.1-0.2 Soil S14-Ja03859 Jan 09, 2014	FC047 1.5-1.7 Soil S14-Ja03861 Jan 09, 2014	FC048 0.1-0.2 Soil S14-Ja03863 Jan 09, 2014	FC048 1.8-2.0 Soil S14-Ja03866 Jan 09, 2014
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	110	170	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	1.3	2.8	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	3.0	5.3	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	2.5	4.4	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	2.1	2.3	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	1.4	2.6	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	2.5	4.9	< 0.5
Chrysene	0.5	mg/kg	< 0.5	2.6	4.4	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	0.7	< 0.5
Fluoranthene	0.5	mg/kg	1.0	6.6	13	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	0.6	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	1.3	2.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	0.7	5.4	12	< 0.5
Pyrene	0.5	mg/kg	0.9	5.8	11	< 0.5
Total PAH	0.5	mg/kg	2.6	35	67	< 0.5
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	< 0.5	3.4	6.6	< 0.5
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	0.6	3.6	6.6	0.6
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	1.2	3.9	6.6	1.2
2-Fluorobiphenyl (surr.)	1	%	83	84	91	105
p-Terphenyl-d14 (surr.)	1	%	90	95	105	111
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	< 0.1	-
4.4'-DDD	0.05	mg/kg	-	< 0.05	< 0.05	-
4.4'-DDE	0.05	mg/kg	-	< 0.05	< 0.05	-
4.4'-DDT	0.05	mg/kg	-	< 0.05	< 0.05	-
a-BHC	0.05	mg/kg	-	< 0.05	< 0.05	-
Aldrin	0.05	mg/kg	-	< 0.05	< 0.05	-
b-BHC	0.05	mg/kg	-	< 0.05	< 0.05	-
d-BHC	0.05	mg/kg	-	< 0.05	< 0.05	-
Dieldrin	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan I	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan II	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin ketone	0.05	mg/kg	-	< 0.05	< 0.05	-
g-BHC (Lindane)	0.05	mg/kg	-	< 0.05	< 0.05	-
Heptachlor	0.05	mg/kg	-	< 0.05	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	< 0.05	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC047 0.1-0.2 Soil S14-Ja03859 Jan 09, 2014	FC047 1.5-1.7 Soil S14-Ja03861 Jan 09, 2014	FC048 0.1-0.2 Soil S14-Ja03863 Jan 09, 2014	FC048 1.8-2.0 Soil S14-Ja03866 Jan 09, 2014
Organochlorine Pesticides						
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	< 0.05	-
Methoxychlor	0.2	mg/kg	-	< 0.2	< 0.2	-
Toxaphene	1	mg/kg	-	< 1	< 1	-
Dibutylchlorendate (surr.)	1	%	-	103	84	-
Tetrachloro-m-xylene (surr.)	1	%	-	86	58	-
Polychlorinated Biphenyls (PCB)						
Aroclor-1016	0.5	mg/kg	-	< 0.5	< 0.5	-
Aroclor-1232	0.5	mg/kg	-	< 0.5	< 0.5	-
Aroclor-1242	0.5	mg/kg	-	< 0.5	< 0.5	-
Aroclor-1248	0.5	mg/kg	-	< 0.5	< 0.5	-
Aroclor-1254	0.5	mg/kg	-	< 0.5	< 0.5	-
Aroclor-1260	0.5	mg/kg	-	< 0.5	< 0.5	-
Total PCB	0.5	mg/kg	-	< 0.5	< 0.5	-
Dibutylchlorendate (surr.)	1	%	-	103	84	-
% Moisture	0.1	%	19	10	6.5	6.2
Heavy Metals						
Arsenic	2	mg/kg	< 2	< 2	< 2	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	< 5	< 5	< 5
Copper	5	mg/kg	20	20	31	< 5
Lead	5	mg/kg	55	280	72	< 5
Mercury	0.05	mg/kg	< 0.05	0.10	0.10	< 0.05
Nickel	5	mg/kg	< 5	< 5	< 5	< 5
Zinc	5	mg/kg	88	130	77	< 5

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC110 0.1-0.2 Soil S14-Ja03868 Jan 09, 2014	FC038 0.1-0.2 Soil S14-Ja03871 Jan 10, 2014	FC040 0.2-0.3 Soil S14-Ja03874 Jan 10, 2014	FC042 0.2-0.3 Soil S14-Ja03878 Jan 10, 2014
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	580	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	310	< 50	92
TRH C10-36 (Total)	50	mg/kg	< 50	890	< 50	92
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	90	97	99	92

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC110 0.1-0.2 Soil S14-Ja03868 Jan 09, 2014	FC038 0.1-0.2 Soil S14-Ja03871 Jan 10, 2014	FC040 0.2-0.3 Soil S14-Ja03874 Jan 10, 2014	FC042 0.2-0.3 Soil S14-Ja03878 Jan 10, 2014
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	840	< 100	120
TRH >C34-C40	100	mg/kg	< 100	140	< 100	< 100
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	0.6	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	0.6	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	0.9	< 0.5	< 0.5	0.6
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	1.0	< 0.5	< 0.5	0.7
Total PAH	0.5	mg/kg	4.1	< 0.5	< 0.5	1.3
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	0.7	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	1.0	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	1.3	1.2	1.2	1.2
2-Fluorobiphenyl (surr.)	1	%	70	84	86	85
p-Terphenyl-d14 (surr.)	1	%	75	83	91	88
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC110 0.1-0.2 Soil S14-Ja03868 Jan 09, 2014	FC038 0.1-0.2 Soil S14-Ja03871 Jan 10, 2014	FC040 0.2-0.3 Soil S14-Ja03874 Jan 10, 2014	FC042 0.2-0.3 Soil S14-Ja03878 Jan 10, 2014
Organochlorine Pesticides						
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Toxaphene	1	mg/kg	< 1	< 1	< 1	< 1
Dibutylchlorendate (surr.)	1	%	89	99	83	94
Tetrachloro-m-xylene (surr.)	1	%	71	72	73	80
Polychlorinated Biphenyls (PCB)						
Aroclor-1016	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aroclor-1232	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aroclor-1242	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aroclor-1248	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aroclor-1254	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aroclor-1260	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PCB	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibutylchlorendate (surr.)	1	%	89	99	83	94
Conductivity (1:5 aqueous extract at 25°C)	5	uS/cm	-	210	-	130
pH (1:5 Aqueous extract)	0.1	units	-	7.2	-	7.7
% Moisture	0.1	%	3.8	23	9.9	19
Heavy Metals						
Arsenic	2	mg/kg	< 2	15	< 2	< 2
Cadmium	0.4	mg/kg	< 0.4	0.6	< 0.4	0.5
Chromium	5	mg/kg	< 5	< 5	< 5	< 5
Copper	5	mg/kg	43	38	7.3	56
Lead	5	mg/kg	100	45	21	230
Mercury	0.05	mg/kg	0.08	0.79	< 0.05	0.10
Nickel	5	mg/kg	< 5	22	< 5	6.0
Zinc	5	mg/kg	110	91	91	230

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC042 0.8-1.0 Soil S14-Ja03879 Jan 10, 2014	FC094 0.2-0.3 Soil S14-Ja03882 Jan 10, 2014	FC094 1.7-1.9 Soil S14-Ja03884 Jan 10, 2014	FC039 0.2-0.3 Soil S14-Ja03887 Jan 10, 2014
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	26
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	85
TRH C10-36 (Total)	50	mg/kg	< 50	< 50	< 50	110
BTEX						
Benzene	0.1	mg/kg	-	-	-	< 0.1
Toluene	0.1	mg/kg	-	-	-	< 0.1
Ethylbenzene	0.1	mg/kg	-	-	-	< 0.1
m&p-Xylenes	0.2	mg/kg	-	-	-	< 0.2
o-Xylene	0.1	mg/kg	-	-	-	< 0.1
Xylenes - Total	0.3	mg/kg	-	-	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	-	-	100

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC042 0.8-1.0 Soil S14-Ja03879 Jan 10, 2014	FC094 0.2-0.3 Soil S14-Ja03882 Jan 10, 2014	FC094 1.7-1.9 Soil S14-Ja03884 Jan 10, 2014	FC039 0.2-0.3 Soil S14-Ja03887 Jan 10, 2014
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	0.6	< 0.5
Benz(a)anthracene	0.5	mg/kg	0.8	< 0.5	2.1	< 0.5
Benzo(a)pyrene	0.5	mg/kg	1.0	< 0.5	2.2	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	0.8	< 0.5	1.7	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	0.8	< 0.5	1.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	1.1	< 0.5	2.3	< 0.5
Chrysene	0.5	mg/kg	0.9	< 0.5	1.9	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	1.4	< 0.5	4.3	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	0.6	< 0.5	1.3	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	2.7	< 0.5
Pyrene	0.5	mg/kg	1.4	< 0.5	4.1	< 0.5
Total PAH	0.5	mg/kg	8.8	< 0.5	25	< 0.5
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	1.4	< 0.5	3.0	< 0.5
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	1.6	0.6	3.3	0.6
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	1.9	1.2	3.5	1.2
2-Fluorobiphenyl (surr.)	1	%	76	86	90	86
p-Terphenyl-d14 (surr.)	1	%	79	91	96	91
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	-	-	< 0.05
a-BHC	0.05	mg/kg	-	-	-	< 0.05
Aldrin	0.05	mg/kg	-	-	-	< 0.05
b-BHC	0.05	mg/kg	-	-	-	< 0.05
d-BHC	0.05	mg/kg	-	-	-	< 0.05
Dieldrin	0.05	mg/kg	-	-	-	< 0.05
Endosulfan I	0.05	mg/kg	-	-	-	< 0.05
Endosulfan II	0.05	mg/kg	-	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	-	-	< 0.05
Endrin	0.05	mg/kg	-	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	-	-	< 0.05
Endrin ketone	0.05	mg/kg	-	-	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	-	-	< 0.05
Heptachlor	0.05	mg/kg	-	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	-	-	< 0.05

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC042 0.8-1.0 Soil S14-Ja03879 Jan 10, 2014	FC094 0.2-0.3 Soil S14-Ja03882 Jan 10, 2014	FC094 1.7-1.9 Soil S14-Ja03884 Jan 10, 2014	FC039 0.2-0.3 Soil S14-Ja03887 Jan 10, 2014
Organochlorine Pesticides						
Hexachlorobenzene	0.05	mg/kg	-	-	-	< 0.05
Methoxychlor	0.2	mg/kg	-	-	-	< 0.2
Toxaphene	1	mg/kg	-	-	-	< 1
Dibutylchlorendate (surr.)	1	%	-	-	-	84
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	74
Polychlorinated Biphenyls (PCB)						
Aroclor-1016	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1232	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1242	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1248	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1254	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1260	0.5	mg/kg	-	-	-	< 0.5
Total PCB	0.5	mg/kg	-	-	-	< 0.5
Dibutylchlorendate (surr.)	1	%	-	-	-	84
% Moisture	0.1	%	19	22	17	11
Heavy Metals						
Arsenic	2	mg/kg	7.5	< 2	6.6	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	0.7	< 0.4
Chromium	5	mg/kg	5.8	< 5	18	< 5
Copper	5	mg/kg	28	37	94	6.3
Lead	5	mg/kg	570	140	500	13
Mercury	0.05	mg/kg	0.33	0.10	0.69	< 0.05
Nickel	5	mg/kg	6.2	< 5	6.8	< 5
Zinc	5	mg/kg	150	140	750	51

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Jan 15, 2014	14 Day
- Method: E004 Petroleum Hydrocarbons (TPH)			
BTEX	Sydney	Jan 15, 2014	14 Day
- Method: E029/E016 BTEX			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jan 15, 2014	14 Day
- Method: LM-LTM-ORG2010			
Polycyclic Aromatic Hydrocarbons	Sydney	Jan 15, 2014	14 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Organochlorine Pesticides	Sydney	Jan 15, 2014	14 Day
- Method: E013 Organochlorine Pesticides (OC)			
Polychlorinated Biphenyls (PCB)	Sydney	Jan 15, 2014	28 Day
- Method: E013 Polychlorinated Biphenyls (PCB)			
Metals M8	Sydney	Jan 15, 2014	28 Day
- Method: E022 Acid Extractable metals in Soils & E026 Mercury			
Conductivity (1:5 aqueous extract at 25°C)	Sydney	Jan 15, 2014	7 Day
- Method: E032.2 Electrical Conductivity (EC)			
pH (1:5 Aqueous extract)	Sydney	Jan 15, 2014	7 Day
- Method: E018.2 pH			
% Moisture	Sydney	Jan 15, 2014	28 Day
- Method: E005 Moisture Content			
Foreign Material - Type I	Sydney	Jan 14, 2014	180 Day
- Method: RTA Method T276			
Foreign Material - Type II	Sydney	Jan 14, 2014	180 Day
- Method: RTA Method T276			
Foreign Material - Type III	Sydney	Jan 14, 2014	180 Day
- Method: RTA Method T276			

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NSW 2000

Client Job No.: GREEN SQUARE BLOCK B, C, D 43182

Order No.:
Report #: 405482
Phone: 02 8245 0300
Fax:

Received: Jan 13, 2014 5:00 PM
Due: Jan 21, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	Total Recoverable Hydrocarbons	Foreign Materials - ENM	JBS&G Suite 2
Laboratory where analysis is conducted													
Melbourne Laboratory - NATA Site # 1254 & 14271													
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794													
External Laboratory													
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**									
FC043 0.2-0.3	Jan 10, 2014		Soil	S14-Ja03850	X	X		X	X	X	X		
FC043 0.5-0.8	Jan 10, 2014		Soil	S14-Ja03851	X	X		X				X	X
FC043 1.8-2.0	Jan 10, 2014		Soil	S14-Ja03852			X						
FC043 2.8-3.0	Jan 10, 2014		Soil	S14-Ja03853			X						
FC044 0.1-0.2	Jan 09, 2014		Soil	S14-Ja03854	X								X
FC044 1.0-1.2	Jan 09, 2014		Soil	S14-Ja03855			X						
FC044 2.5-2.7	Jan 09, 2014		Soil	S14-Ja03856	X								X
FC045 0.1-0.3	Jan 10, 2014		Soil	S14-Ja03857			X						
FC045 1.5-1.8	Jan 10, 2014		Soil	S14-Ja03858			X						
FC047 0.1-0.2	Jan 09, 2014		Soil	S14-Ja03859	X				X	X	X		

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NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
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Client Job No.: GREEN SQUARE BLOCK B, C, D 43182

Order No.:
Report #: 405482
Phone: 02 8245 0300
Fax:

Received: Jan 13, 2014 5:00 PM
Due: Jan 21, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	Total Recoverable Hydrocarbons	Foreign Materials - ENM	JBS&G Suite 2
Laboratory where analysis is conducted													
Melbourne Laboratory - NATA Site # 1254 & 14271													
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794													
External Laboratory													
FC047 0.5-0.7	Jan 09, 2014		Soil	S14-Ja03860			X						
FC047 1.5-1.7	Jan 09, 2014		Soil	S14-Ja03861	X								X
FC047 2.8-3.0	Jan 09, 2014		Soil	S14-Ja03862			X						
FC048 0.1-0.2	Jan 09, 2014		Soil	S14-Ja03863	X								X
FC048 0.5-0.7	Jan 09, 2014		Soil	S14-Ja03864			X						
FC048 1.0-1.2	Jan 09, 2014		Soil	S14-Ja03865			X						
FC048 1.8-2.0	Jan 09, 2014		Soil	S14-Ja03866	X				X	X	X		
FC048 2.9-3.1	Jan 09, 2014		Soil	S14-Ja03867			X						
FC110 0.1-0.2	Jan 09, 2014		Soil	S14-Ja03868	X								X
FC110 1.1-1.3	Jan 09, 2014		Soil	S14-Ja03869			X						
FC110 2.7-2.9	Jan 09, 2014		Soil	S14-Ja03870			X						

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Laboratory where analysis is conducted													
Melbourne Laboratory - NATA Site # 1254 & 14271													
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794													
External Laboratory													
FC038 0.1-0.2	Jan 10, 2014		Soil	S14-Ja03871	X	X		X					X
FC038 0.3-0.5	Jan 10, 2014		Soil	S14-Ja03872			X						
FC038 2.7-2.9	Jan 10, 2014		Soil	S14-Ja03873			X						
FC040 0.2-0.3	Jan 10, 2014		Soil	S14-Ja03874	X								X
FC040 1.1-1.3	Jan 10, 2014		Soil	S14-Ja03875			X						
FC041 0.2-0.3	Jan 10, 2014		Soil	S14-Ja03876			X						
FC041 1.5-1.7	Jan 10, 2014		Soil	S14-Ja03877			X						
FC042 0.2-0.3	Jan 10, 2014		Soil	S14-Ja03878	X	X		X					X
FC042 0.8-1.0	Jan 10, 2014		Soil	S14-Ja03879	X				X	X	X		
FC042 1.8-2.0	Jan 10, 2014		Soil	S14-Ja03880			X						
FC042 3.0-3.2	Jan 10, 2014		Soil	S14-Ja03881			X						

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Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	Total Recoverable Hydrocarbons	Foreign Materials - ENM	JBS&G Suite 2
Laboratory where analysis is conducted													
Melbourne Laboratory - NATA Site # 1254 & 14271													
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794													
External Laboratory													
FC094 0.2-0.3	Jan 10, 2014		Soil	S14-Ja03882	X				X	X	X		
FC094 0.6-0.8	Jan 10, 2014		Soil	S14-Ja03883			X						
FC094 1.7-1.9	Jan 10, 2014		Soil	S14-Ja03884	X				X	X	X		
FC094 2.8-3.0	Jan 10, 2014		Soil	S14-Ja03885			X						
FC094 4.1-4.3	Jan 10, 2014		Soil	S14-Ja03886			X						
FC039 0.2-0.3	Jan 10, 2014		Soil	S14-Ja03887	X								X
FC039 1.1-1.3	Jan 10, 2014		Soil	S14-Ja03888			X						

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH C6-C10 less BTEX (F1)	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-BHC	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-BHC	mg/kg	< 0.05			0.05	Pass	
d-BHC	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-BHC (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.2			0.2	Pass	
Toxaphene	mg/kg	< 1			1	Pass	
Method Blank							
Polychlorinated Biphenyls (PCB)							
Aroclor-1016	mg/kg	< 0.5			0.5	Pass	
Aroclor-1232	mg/kg	< 0.5			0.5	Pass	
Aroclor-1242	mg/kg	< 0.5			0.5	Pass	
Aroclor-1248	mg/kg	< 0.5			0.5	Pass	
Aroclor-1254	mg/kg	< 0.5			0.5	Pass	
Aroclor-1260	mg/kg	< 0.5			0.5	Pass	
Total PCB	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.05			0.05	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	83			70-130	Pass	
TRH C10-C14	%	79			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	91			70-130	Pass	
Toluene	%	91			70-130	Pass	
Ethylbenzene	%	85			70-130	Pass	
m&p-Xylenes	%	89			70-130	Pass	
o-Xylene	%	87			70-130	Pass	
Xylenes - Total	%	88			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	82			70-130	Pass	
TRH C6-C10	%	76			70-130	Pass	
TRH >C10-C16	%	85			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	109			70-130	Pass	
Acenaphthylene	%	101			70-130	Pass	
Anthracene	%	105			70-130	Pass	
Benz(a)anthracene	%	98			70-130	Pass	
Benzo(a)pyrene	%	105			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Benzo(b&j)fluoranthene	%	97			70-130	Pass	
Benzo(g.h.i)perylene	%	112			70-130	Pass	
Benzo(k)fluoranthene	%	112			70-130	Pass	
Chrysene	%	106			70-130	Pass	
Dibenz(a.h)anthracene	%	115			70-130	Pass	
Fluoranthene	%	100			70-130	Pass	
Fluorene	%	110			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	116			70-130	Pass	
Naphthalene	%	100			70-130	Pass	
Phenanthrene	%	98			70-130	Pass	
Pyrene	%	97			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	102			70-130	Pass	
4.4'-DDE	%	113			70-130	Pass	
4.4'-DDT	%	112			70-130	Pass	
a-BHC	%	105			70-130	Pass	
Aldrin	%	105			70-130	Pass	
b-BHC	%	109			70-130	Pass	
d-BHC	%	105			70-130	Pass	
Dieldrin	%	104			70-130	Pass	
Endosulfan I	%	104			70-130	Pass	
Endosulfan II	%	107			70-130	Pass	
Endosulfan sulphate	%	103			70-130	Pass	
Endrin	%	104			70-130	Pass	
Endrin aldehyde	%	107			70-130	Pass	
Endrin ketone	%	109			70-130	Pass	
g-BHC (Lindane)	%	103			70-130	Pass	
Heptachlor	%	99			70-130	Pass	
Heptachlor epoxide	%	103			70-130	Pass	
Hexachlorobenzene	%	80			70-130	Pass	
Methoxychlor	%	116			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls (PCB)							
Aroclor-1260	%	106			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	102			70-130	Pass	
Cadmium	%	106			70-130	Pass	
Chromium	%	107			70-130	Pass	
Copper	%	118			70-130	Pass	
Lead	%	100			70-130	Pass	
Mercury	%	96			70-130	Pass	
Nickel	%	109			70-130	Pass	
Zinc	%	103			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S14-Ja03850	CP	%	80			70-130	Pass	
TRH C10-C14	S14-Ja03850	CP	%	83			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S14-Ja03850	CP	%	89			70-130	Pass	
Toluene	S14-Ja03850	CP	%	98			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Ethylbenzene	S14-Ja03850	CP	%	95			70-130	Pass	
m&p-Xylenes	S14-Ja03850	CP	%	100			70-130	Pass	
o-Xylene	S14-Ja03850	CP	%	98			70-130	Pass	
Xylenes - Total	S14-Ja03850	CP	%	99			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S14-Ja03850	CP	%	79			70-130	Pass	
TRH C6-C10	S14-Ja03850	CP	%	87			70-130	Pass	
TRH >C10-C16	S14-Ja03850	CP	%	91			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S14-Ja03850	CP	%	125			70-130	Pass	
Acenaphthylene	S14-Ja03850	CP	%	115			70-130	Pass	
Anthracene	S14-Ja03850	CP	%	129			70-130	Pass	
Benz(a)anthracene	S14-Ja03850	CP	%	117			70-130	Pass	
Benzo(a)pyrene	S14-Ja03850	CP	%	109			70-130	Pass	
Benzo(b&j)fluoranthene	S14-Ja03850	CP	%	120			70-130	Pass	
Benzo(g.h.i)perylene	S14-Ja03850	CP	%	105			70-130	Pass	
Benzo(k)fluoranthene	S14-Ja03850	CP	%	116			70-130	Pass	
Chrysene	S14-Ja03850	CP	%	122			70-130	Pass	
Dibenz(a.h)anthracene	S14-Ja03850	CP	%	127			70-130	Pass	
Fluoranthene	S14-Ja03850	CP	%	122			70-130	Pass	
Fluorene	S14-Ja03850	CP	%	120			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja03850	CP	%	114			70-130	Pass	
Naphthalene	S14-Ja03850	CP	%	125			70-130	Pass	
Phenanthrene	S14-Ja03850	CP	%	123			70-130	Pass	
Pyrene	S14-Ja03850	CP	%	116			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S14-Ja03850	CP	%	109			70-130	Pass	
Cadmium	S14-Ja03850	CP	%	108			70-130	Pass	
Chromium	S14-Ja03850	CP	%	110			70-130	Pass	
Lead	S14-Ja03850	CP	%	95			70-130	Pass	
Mercury	S14-Ja03850	CP	%	100			70-130	Pass	
Nickel	S14-Ja03850	CP	%	110			70-130	Pass	
Zinc	S14-Ja03551	NCP	%	104			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls (PCB)				Result 1					
Aroclor-1260	S14-Ja03678	NCP	%	108			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S14-Ja03874	CP	%	74			70-130	Pass	
TRH C10-C14	S14-Ja03874	CP	%	76			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S14-Ja03874	CP	%	91			70-130	Pass	
Toluene	S14-Ja03874	CP	%	96			70-130	Pass	
Ethylbenzene	S14-Ja03874	CP	%	92			70-130	Pass	
m&p-Xylenes	S14-Ja03874	CP	%	94			70-130	Pass	
o-Xylene	S14-Ja03874	CP	%	93			70-130	Pass	
Xylenes - Total	S14-Ja03874	CP	%	94			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S14-Ja03874	CP	%	82			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
TRH C6-C10	S14-Ja03874	CP	%	78			70-130	Pass	
TRH >C10-C16	S14-Ja03874	CP	%	82			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S14-Ja03874	CP	%	120			70-130	Pass	
Acenaphthylene	S14-Ja03874	CP	%	116			70-130	Pass	
Anthracene	S14-Ja03874	CP	%	121			70-130	Pass	
Benz(a)anthracene	S14-Ja03874	CP	%	119			70-130	Pass	
Benzo(a)pyrene	S14-Ja03874	CP	%	121			70-130	Pass	
Benzo(b&j)fluoranthene	S14-Ja03874	CP	%	113			70-130	Pass	
Benzo(g.h.i)perylene	S14-Ja03874	CP	%	124			70-130	Pass	
Benzo(k)fluoranthene	S14-Ja03874	CP	%	124			70-130	Pass	
Chrysene	S14-Ja03874	CP	%	121			70-130	Pass	
Dibenz(a.h)anthracene	S14-Ja03874	CP	%	123			70-130	Pass	
Fluoranthene	S14-Ja03874	CP	%	125			70-130	Pass	
Fluorene	S14-Ja03874	CP	%	125			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja03874	CP	%	125			70-130	Pass	
Naphthalene	S14-Ja03874	CP	%	121			70-130	Pass	
Phenanthrene	S14-Ja03874	CP	%	119			70-130	Pass	
Pyrene	S14-Ja03874	CP	%	121			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S14-Ja03874	CP	%	99			70-130	Pass	
Cadmium	S14-Ja03874	CP	%	87			70-130	Pass	
Chromium	S14-Ja03874	CP	%	93			70-130	Pass	
Copper	S14-Ja03874	CP	%	100			70-130	Pass	
Lead	S14-Ja03874	CP	%	89			70-130	Pass	
Mercury	S14-Ja03874	CP	%	104			70-130	Pass	
Nickel	S14-Ja03874	CP	%	99			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S14-Ja03850	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S14-Ja03850	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S14-Ja03850	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S14-Ja03850	CP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S14-Ja03850	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S14-Ja03850	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S14-Ja03850	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S14-Ja03850	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S14-Ja03850	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total	S14-Ja03850	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S14-Ja03850	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S14-Ja03850	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S14-Ja03850	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S14-Ja03850	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S14-Ja03850	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S14-Ja03850	CP	mg/kg	< 100	< 100	<1	30%	Pass	

Duplicate									
				Result 1	Result 2	RPD			
Conductivity (1:5 aqueous extract at 25°C)	S14-Ja04013	NCP	uS/cm	74	74	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S14-Ja03850	CP	mg/kg	< 2	2.9	140	30%	Fail	Q15
Cadmium	S14-Ja03850	CP	mg/kg	< 0.4	0.6	55	30%	Fail	Q15
Chromium	S14-Ja03850	CP	mg/kg	< 5	6.0	57	30%	Fail	Q15
Copper	S14-Ja03850	CP	mg/kg	30	48	47	30%	Fail	Q15
Lead	S14-Ja03850	CP	mg/kg	100	130	27	30%	Pass	
Mercury	S14-Ja03850	CP	mg/kg	0.15	0.07	69	30%	Fail	Q15
Nickel	S14-Ja03850	CP	mg/kg	< 5	7.6	74	30%	Fail	Q15
Zinc	S14-Ja03850	CP	mg/kg	130	200	47	30%	Fail	Q08
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S14-Ja03678	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S14-Ja03678	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S14-Ja03678	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S14-Ja03678	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	S14-Ja03678	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S14-Ja03678	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	S14-Ja03678	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-BHC	S14-Ja03678	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S14-Ja03678	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S14-Ja03678	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S14-Ja03678	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S14-Ja03678	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S14-Ja03678	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S14-Ja03678	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S14-Ja03678	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	S14-Ja03678	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S14-Ja03678	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S14-Ja03678	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S14-Ja03678	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S14-Ja03678	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Toxaphene	S14-Ja03678	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls (PCB)				Result 1	Result 2	RPD			
Aroclor-1016	S14-Ja03678	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1232	S14-Ja03678	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1242	S14-Ja03678	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1248	S14-Ja03678	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1254	S14-Ja03678	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1260	S14-Ja03678	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S14-Ja03874	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S14-Ja03874	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S14-Ja03874	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S14-Ja03874	CP	mg/kg	< 50	< 50	<1	30%	Pass	

Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S14-Ja03874	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S14-Ja03874	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S14-Ja03874	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S14-Ja03874	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S14-Ja03874	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total	S14-Ja03874	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S14-Ja03874	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S14-Ja03874	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S14-Ja03874	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S14-Ja03874	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S14-Ja03874	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S14-Ja03874	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S14-Ja03874	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S14-Ja03874	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S14-Ja03874	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S14-Ja03874	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S14-Ja03874	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S14-Ja03874	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S14-Ja03874	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S14-Ja03874	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S14-Ja03874	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S14-Ja03874	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S14-Ja03874	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S14-Ja03874	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja03874	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S14-Ja03874	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S14-Ja03874	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S14-Ja03874	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S14-Ja03874	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Cadmium	S14-Ja03874	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S14-Ja03874	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	S14-Ja03874	CP	mg/kg	7.3	5.1	34	30%	Fail	Q15
Lead	S14-Ja03874	CP	mg/kg	21	17	24	30%	Pass	
Mercury	S14-Ja03874	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Nickel	S14-Ja03874	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Zinc	S14-Ja03874	CP	mg/kg	91	60	40	30%	Fail	Q15

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q08	The matrix spike recovery is outside of the recommended acceptance criteria. An acceptable recovery was obtained for the laboratory control sample indicating a sample matrix interference
Q15	The RPD reported passes Eurofins | mgt's Acceptance Criteria as stipulated in SOP 05. Refer to Glossary Page of this report for further details

Authorised By

Jean Heng	Client Services
Bob Symons	Senior Analyst-Inorganic (NSW)
James Norford	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)
Ryan Hamilton	Senior Analyst-Volatile (NSW)

Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

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eurofins | mgt
Unit F3-F6 Building F, Parkview Building
16 Mars Road, Lane Cove West
NSW 2066

Page 1 of 2

CHAIN OF CUSTODY #405482

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square - Block 15 bcd.
SEND REPORT TO: N. Cussen SEND INVOICE TO: Greare NG
DATE NEEDED BY: std.
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: Chris Bielby
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: NCUSSEN@JBSG.COM.A
QC LEVEL: NEPM (2013)

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	JB1	JB1T	JB1A	JB2	JB2A	B10	JB2/JBL	JB3/JBL	JB4	JBL	pH	EC	CEC	8 metals	TPH	PAH	BTEX	VOCs			NOTES:
FC043-0.2-0.3	Soil	10/1/14		Jar on ice												X	X		X	X	X					
FC043-0.5-0.8				Jar + 6kg bag on ice					X							X	X	X								
FC043-1.8-2.0				↓ ↓ + 6kg bag																						
FC043-2.8-3.0		↓		Jar on ice																						
FC044-0.1-0.2		9/1/14		↓					X																	
FC044-1.0-1.2		↓																								
FC044-2.5-2.7				Jar on ice + 6Kg bag					X																	
FC045-0.1-0.3		10/1/14		Jar on ice																						
FC045-1.5-1.8		↓		Jar on ice + 6Kg bag																						
FC047-0.1-0.2		9/1/14		Jar on ice															X	X	X					
FC047-0.5-0.7																										
FC047-1.5-1.7									X																	
FC047-2.8-3.0																										
FC048-0.1-0.2									X																	
FC048-0.5-0.7																										
FC048-1.0-1.2																										
FC048-1.8-2.0																										
FC048-2.9-3.1																			X	X	X					
FC110-0.1-0.2		↓		↓					X																	

RELINQUISHED BY:
NAME: Nethra DATE: 10/1/14
OF: JBS&G

NAME: DATE:
OF:

METHOD OF SHIPMENT:
CONSIGNMENT NOTE NO.
TRANSPORT CO.

CONSIGNMENT NOTE NO.
TRANSPORT CO

RECEIVED BY:
NAME: Ellen WG DATE: 130114
OF: EFImgt 1700

NAME: DATE:
OF:

FOR RECEIVING LAB USE ONLY:
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C

COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - eurofins mgt

JB1 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1T - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos
JB2 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
B10 - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2/JBL - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)
JB3/JBL - TRH/BTEX/PAH/OCP/OPP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)/Asbestos
JB4 - TRH/BTEX/VOC
JBL - TCLP(PAH & 6 Metals)

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Unit F3-F6 Building F, Parkview Building
16 Mars Road, Lane Cove West
NSW 2066

CHAIN OF CUSTODY

#405482

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square - Block B bcd.
SEND REPORT TO: N. Cussen SEND INVOICE TO: Grace NG
DATE NEEDED BY: std.
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: Chris Bielby
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: NCUSSEN@JBSG.COM.A
QC LEVEL: NEPM (2013)

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	JB1	JB1T	JB1A	JB2	JB2A	B10	JB2/JBL	JB3/JBL	JB4	JBL	8 Metals	TRH	PAH	PH	EC	NOTES:
FC110-1.1-1.3	Soil	9/1/14		Jar onice + 6kg bag																	
FC110-2.7-2.9		↓		Jar onice																	
FC036-0.1-0.2		10/1/14							X										X	X	
FC036-0.3-0.5																					
FC036-2.7-2.9																					
FC040-0.2-0.3									X												
FC040 1.1-1.3																					
FC041-0.2-0.3																					
FC041-1.5-1.7																					
FC042-0.2-0.3																					
FC042-0.8-1.0									X									X	X		
FC042-1.8-2.0																X	X	X			
FC042-3.0-3.2																					
FC094-0.2-0.3																					
FC094-0.6-0.8																X	X	X			
FC094-1.7-1.9																					
FC094-2.8-3.0																X	X	X			
FC094-4.1-4.3	↓	↓		↓																	
FC039 0.2-0.3								X													
wd FC039																					

RELINQUISHED BY:
NAME: Nathan DATE: 10/1/14
OF: JBS&G

METHOD OF SHIPMENT:
CONSIGNMENT NOTE NO.
TRANSPORT CO.

RECEIVED BY:
NAME: Ellen Ng DATE: 130114
OF: EFmgt 1700

FOR RECEIVING LAB USE ONLY:
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C

NAME: DATE:
OF:

CONSIGNMENT NOTE NO.
TRANSPORT CO

NAME: DATE:
OF:

COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - eurofins mgt

JB1 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1T - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos
JB2 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
B10 - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2/JBL - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)
JB3/JBL - TRH/BTEX/PAH/OCP/OPP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)/Asbestos
JB4 - TRH/BTEX/VOC
JBL - TCLP(PAH & 6 Metals)

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

SAMPLE RECEIPT ADVICE

Client:

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney NSW 2000

ph: 02 8245 0300
Fax: 02 8245 0399

Attention: Nathan Cussen

Sample log in details:

Your reference:	**43182, Green Square Block 15 BCD**
Envirolab Reference:	**103615**
Date received:	16/01/14
Date results expected to be reported:	**24/01/14**

Samples received in appropriate condition for analysis:	YES
No. of samples provided	9 Soils
Turnaround time requested:	Standard
Temperature on receipt (°C)	NA
Cooling Method:	None
Sampling Date Provided:	YES

Comments:

Samples will be held for 1 month for water samples and 2 months for soil samples from date of receipt of samples.

FC035 7.0-7.2 missing

Contact details:

Please direct any queries to Aileen Hie or Jacinta Hurst
ph: 02 9910 6200 fax: 02 9910 6201
email: ahie@envirolabservices.com.au or jhurst@envirolabservices.com.au

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

CERTIFICATE OF ANALYSIS 103615

Client:

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention: Nathan Cussen

Sample log in details:

Your Reference:	**43182, Green Square Block 15 BCD**
No. of samples:	9 Soils
Date samples received / completed instructions received	16/01/14 / 17/01/2014

Analysis Details:

Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by: / Issue Date:	24/01/14 / 24/01/14
Date of Preliminary Report:	Not Issued

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Accredited for compliance with ISO/IEC 17025. **Tests not covered by NATA are denoted with *.**

Results Approved By:

Jacinta Hurst
Laboratory Manager

Asbestos ID - soils WA					
Our Reference:	UNITS	103615-4	103615-7	103615-8	103615-9
Your Reference	----------	FC029	FC032	FC032	FC032
Depth	----------	5.0-5.2	0.5-0.7	2.5-2.7	3.8-4.0
Date Sampled		14/01/2014	14/01/2014	14/01/2014	14/01/2014
Type of sample		soil	soil	soil	soil
Date analysed	-	24/01/2014	24/01/2014	24/01/2014	24/01/2014
Sample mass tested	g	1007.49g	1053.09g	1014.07g	930.77g
Sample Description	-	Dark brown fine-grained soil & rocks	Dark brown fine-grained soil & rocks	Dark brown fine-grained soil & rocks	Dark brown fine-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected

Method ID	Methodology Summary
ASB-003	Asbestos ID - Minimum 500mL soil sample was analysed as recommended by "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.1g/kg as per AS4964-2004.

Report Comments:

This report is consistent with the analytical procedures and reporting recommendations in the Western Australian Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009.

Asbestos ID was analysed by Approved Identifier:	Alex Tam
Asbestos ID was authorised by Approved Signatory:	Matt Mansfield

INS: Insufficient sample for this test	PQL: Practical Quantitation Limit	NT: Not tested
NA: Test not required	RPD: Relative Percent Difference	NA: Test not required
<: Less than	>: Greater than	LCS: Laboratory Control Sample

Quality Control Definitions

Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

Duplicate: This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

Matrix Spike : A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

LCS (Laboratory Control Sample) : This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Surrogate Spike: Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.
Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.
Spikes for Physical and Aggregate Tests are not applicable.
For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.
Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for SVOC and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Envirolab Services Pty Ltd
12 Ashley Street
Chatswood
NSW 2067

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square Block 15 BLD
SEND REPORT TO: N Lassen SEND INVOICE TO: G Ng
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: Ellen
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: nlassen@jbsg.com.au
QC LEVEL: NEPM (2013)

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH
1	FC029 0.6-0.8	Soil	14.1.14		Bag	
2	FC029 1.8-2.0					
3	FC029 3.5-3.7					
4	FC029 5.0-5.2					
5	FC029 7.0-7.2					
6	FC032 0.5-0.7					
7	FC035 0.5-0.7					
8	FC035 2.5-2.7					
9	FC035 3.8-4.0					
MISSING	~~FC035 7.0-7.2~~ (Karen)					

COMBO SUITES

SOIL - 4	SOIL - 4L	SOIL - 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER - 1m	WATER - 2L	WATER - 3L	8 Metals	TCN	PAH	EC	PH	Asbestos	NOTES:
															X	
															X	
															X	
															X	

Envirolab Services
ENVIROLAB 12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200
Job No: 103615
Date Received: 16/1/14
Time Received: 17:00
Received by: [illegible]
Temp: Cool/Ambient
~~Cooling: Ice/Icepack~~
Security: Intact/Broken/None

RELINQUISHED BY:
NAME: Nathan DATE: 17-01-14
OF: JBS&G
NAME: DATE:
OF:

METHOD OF SHIPMENT:
CONSIGNMENT NOTE NO.
TRANSPORT CO.
CONSIGNMENT NOTE NO.
TRANSPORT CO

RECEIVED BY:
NAME: Kevin Wang
DATE: 16/1/14 17:00
OF: ENS
NAME: DATE:
OF:

FOR RECEIVING LAB USE ONLY:
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Envirolab

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

SAMPLE RECEIPT ADVICE

Client:

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney NSW 2000

ph: 02 8245 0300
Fax: 02 8245 0399

Attention: Nathan Cussen

Sample log in details:

Your reference:	**43182, Green Square Block 15 BCD**
Envirolab Reference:	**103560**
Date received:	15/01/14
Date results expected to be reported:	**22/01/14**

Samples received in appropriate condition for analysis:	YES
No. of samples provided	28 Soils
Turnaround time requested:	Standard
Temperature on receipt (°C)	NA
Cooling Method:	None
Sampling Date Provided:	YES

Comments:

Samples will be held for 1 month for water samples and 2 months for soil samples from date of receipt of samples.

Contact details:

Please direct any queries to Aileen Hie or Jacinta Hurst
ph: 02 9910 6200 fax: 02 9910 6201
email: ahie@envirolabservices.com.au or jhurst@envirolabservices.com.au

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
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enquiries@envirolabservices.com.au
www.envirolabservices.com.au

CERTIFICATE OF ANALYSIS 103560

Client:

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention: Nathan Cussen

Sample log in details:

Your Reference:	**43182, Green Square Block 15 BCD**
No. of samples:	28 Soils
Date samples received / completed instructions received	15/01/14 / 15/01/14

Analysis Details:

Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by: / Issue Date:	22/01/14 / 22/01/14
Date of Preliminary Report:	Not Issued

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Accredited for compliance with ISO/IEC 17025. **Tests not covered by NATA are denoted with *.**

Results Approved By:

Jacinta Hurst
Laboratory Manager

Asbestos ID - soils WA						
Our Reference:	UNITS	103560-2	103560-3	103560-4	103560-8	103560-9
Your Reference	----------	FC030	FC030	FC031	FC033	FC033
Depth	----------	0.8-1.0	2.8-3.0	0.1-0.2	0.8-1.0	3.0-3.2
Date Sampled		14/01/2014	14/01/2014	14/01/2014	14/01/2014	14/01/2014
Type of sample		soil	soil	soil	soil	soil
Date analysed	-	22/01/2014	22/01/2014	22/01/2014	22/01/2014	22/01/2014
Sample mass tested	g	903.16g	927.63g	1024.97g	942.79g	919.78g
Sample Description	-	Beige fine-grained soil & rocks	Beige fine-grained soil & rocks	Beige fine-grained soil & rocks	Brown fine-grained soil & rocks	Brown fine-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected

Asbestos ID - soils WA						
Our Reference:	UNITS	103560-11	103560-12	103560-13	103560-14	103560-15
Your Reference	----------	FC034	FC036	FC036	FC036	FC037
Depth	----------	0.2-0.3	0.2-0.3	2.0-2.2	4.1-4.3	0.2-0.3
Date Sampled		14/01/2014	14/01/2014	14/01/2014	14/01/2014	14/01/2014
Type of sample		soil	soil	soil	soil	soil
Date analysed	-	22/01/2014	22/01/2014	22/01/2014	22/01/2014	22/01/2014
Sample mass tested	g	989.40g	884.93g	921.16g	806.88g	1042.40g
Sample Description	-	Beige fine-grained soil & rocks	Grey coarse-grained soil & rocks	Brown fine-grained soil	Brown fine-grained soil	Beige coarse-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected

Asbestos ID - soils WA						
Our Reference:	UNITS	103560-17	103560-18	103560-22	103560-24	103560-27
Your Reference	----------	FC046	FC046	FC095	FC095	QC08
Depth	----------	0.5-0.6	1.0-1.1	1.0-1.1	3.0-3.1	-
Date Sampled		14/01/2014	14/01/2014	14/01/2014	14/01/2014	14/01/2014
Type of sample		soil	soil	soil	soil	soil
Date analysed	-	22/01/2014	22/01/2014	22/01/2014	22/01/2014	22/01/2014
Sample mass tested	g	1237.12g	1128.01g	1313.17g	1208.67g	928.45g
Sample Description	-	Dark brown coarse-grained sandy soil	Dark brown fine-grained soil & rocks	Dark brown fine-grained soil & rocks	Brown fine-grained soil	Khaki fine-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected

Asbestos ID - soils WA		
Our Reference:	UNITS	103560-28
Your Reference	----------	QC14
Depth	----------	-
Date Sampled		14/01/2014
Type of sample		soil
Date analysed	-	22/01/2014
Sample mass tested	g	992.00g
Sample Description	-	Beige fine-grained soil
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected

Method ID	Methodology Summary
ASB-003	Asbestos ID - Minimum 500mL soil sample was analysed as recommended by "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.1g/kg as per AS4964-2004.

Report Comments:

This report is consistent with the analytical procedures and reporting recommendations in the Western Australian Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009.

Asbestos ID was analysed by Approved Identifier:	Paul Ching
Asbestos ID was authorised by Approved Signatory:	Matt Mansfield

INS: Insufficient sample for this test	PQL: Practical Quantitation Limit	NT: Not tested
NA: Test not required	RPD: Relative Percent Difference	NA: Test not required
<: Less than	>: Greater than	LCS: Laboratory Control Sample

Quality Control Definitions

Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

Duplicate: This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

Matrix Spike : A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

LCS (Laboratory Control Sample) : This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Surrogate Spike: Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.
Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.
Spikes for Physical and Aggregate Tests are not applicable.
For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.
Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for SVOC and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Envirolab Services Pty Ltd
12 Ashley Street
Chatswood
NSW 2067

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square Blacks Rd
SEND REPORT TO: N Cussen SEND INVOICE TO: As Ny
DATE NEEDED BY: STD TAT

LABORATORY BATCH NO.:
SAMPLERS: Ellen
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: ncussen@jbsg.com.au
QC LEVEL: NEPM (2013)

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	COMBO SUITES: SOIL - 4	SOIL – 4L	SOIL – 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER – 1m	WATER – 2L	WATER – 3L	Asbestos (24)	NOTES:
1	FC030 0.2-0.3	Soil	14.1.14		Bag													
2	FC030 0.8-1.0																X	
3	FC030 2.8-3.0																X	
4	FC031 0.1-0.2																X	
5	FC031 0.8-1.0																	
6	FC031 1.8-2.0																	
7	FC033 0.2-0.3																	
8	FC033 0.8-1.0																X	
9	FC033 3.0-3.2																X	
10	FC033 5.8-6.0																	
11	FC034 0.2-0.3																X	
~~12~~	~~FC034 0.8-1.0~~																	
12	FC036 0.2-0.3																X	
13	FC036 2.0-2.2																X	
14	FC036 4.1-4.3																X	
15	FC037 0.2-0.3																X	
16	FC037 1.0-1.2																	
17	FC046 0.5-0.6																X	

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph (02) 9910 6200

Job No: 103560
Date Received: 15/1/14
Time Received: 15:30
Received by: [illegible]
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Nathan DATE: 15.1.14	CONSIGNMENT NOTE NO.	NAME: Kevin Wang DATE: 15/1/14 15:30	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	OF: ALS	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Envirolab

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

Envirolab Services Pty Ltd
12 Ashley Street
Chatswood
NSW 2067

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square Blocks B&D
SEND REPORT TO: SEND INVOICE TO:
DATE NEEDED BY:
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS:
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL:
QC LEVEL: NEPM (2013)

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	COMBO SUITES: SOIL - 4	SOIL – 4L	SOIL – 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER – 1m	WATER – 2L	WATER – 3L	Asbestos	NOTES:
18	FC046 1.0-1.1	Soil	14.1.14		Bag											x		
19	FC046 2.0-2.1																	
20	FC046 3.0-3.1																	
21	FC095 0.5-0.6																	
22	FC095 1.0-1.1															x		
23	FC095 2.0-2.1																	
24	FC095 3.0-3.1															x		
25	FC095 4.0-4.1																	
26	FC095 5.0-5.1																	
27	QC08															x		
	QC08-A						Please send to Perth											
28	QC14															x		
	QC14-A						Please send to Perth											
~~29~~	~~FC086 0.9-1.1~~																	
~~30~~	~~FC086 1.8-2.0~~				Extra (Keep)													
~~31~~	~~FC086 2.8-3.0~~																	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Nathan DATE: 15.1.14	CONSIGNMENT NOTE NO.	NAME: Kevin Ung	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 15/1/14 15:30.	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Envirolab

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

SAMPLE RECEIPT ADVICE

Client:

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney NSW 2000

ph: 02 8245 0300
Fax: 02 8245 0399

Attention: Nathan Cussen

Sample log in details:

Your reference:	**43182, Green Square Block 5A**
Envirolab Reference:	**103547**
Date received:	15/01/14
Date results expected to be reported:	**22/01/14**

Samples received in appropriate condition for analysis:	YES
No. of samples provided	2 soils
Turnaround time requested:	Standard
Temperature on receipt (°C)	NA
Cooling Method:	None
Sampling Date Provided:	YES

Comments:

Samples will be held for 1 month for water samples and 2 months for soil samples from date of receipt of samples.

Contact details:

Please direct any queries to Aileen Hie or Jacinta Hurst
ph: 02 9910 6200 fax: 02 9910 6201
email: ahie@envirolabservices.com.au or jhurst@envirolabservices.com.au

Envirolab Services Pty Ltd
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12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
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CERTIFICATE OF ANALYSIS 103547

Client:
JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention: Nathan Cussen

Sample log in details:

Your Reference:	**43182, Green Square Block 5A**		
No. of samples:	2 soils		
Date samples received / completed instructions received	15/01/14	/	15/01/14

Analysis Details:
Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by: / Issue Date:	22/01/14	/	20/01/14
Date of Preliminary Report:	Not issued		

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Accredited for compliance with ISO/IEC 17025. **Tests not covered by NATA are denoted with *.**

Results Approved By:

Jacinta Hurst
Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil			
Our Reference:	UNITS	103547-1	103547-2
Your Reference	----------	QC08-A	QC14-A
Date Sampled	----------	14/01/2014	14/01/2014
Type of sample		soil	soil
Date extracted	-	16/01/2014	16/01/2014
Date analysed	-	17/01/2014	17/01/2014
TRHC$_6$ - C$_9$	mg/kg	<25	<25
TRHC$_6$ - C$_{10}$	mg/kg	<25	<25
vTPHC$_6$ - C$_{10}$ less BTEX (F1)	mg/kg	<25	<25
Benzene	mg/kg	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1
m+p-xylene	mg/kg	<2	<2
o-Xylene	mg/kg	<1	<1
naphthalene	mg/kg	<1	<1
Surrogate aaa-Trifluorotoluene	%	94	95

svTRH (C10-C40) in Soil			
Our Reference:	UNITS	103547-1	103547-2
Your Reference	----------	QC08-A	QC14-A
Date Sampled	----------	14/01/2014	14/01/2014
Type of sample		soil	soil
Date extracted	-	16/01/2014	16/01/2014
Date analysed	-	16/01/2014	16/01/2014
TRHC$_{10}$ - C$_{14}$	mg/kg	<50	<50
TRHC$_{15}$ - C$_{28}$	mg/kg	<100	<100
TRHC$_{29}$ - C$_{36}$	mg/kg	<100	<100
TRH>C$_{10}$-C$_{16}$	mg/kg	<50	<50
TRH>C$_{10}$ - C$_{16}$ less Naphthalene (F2)	mg/kg	<50	<50
TRH>C$_{16}$-C$_{34}$	mg/kg	<100	<100
TRH>C$_{34}$-C$_{40}$	mg/kg	<100	<100
Surrogate o-Terphenyl	%	99	99

PAHs in Soil			
Our Reference:	UNITS	103547-1	103547-2
Your Reference	----------	QC08-A	QC14-A
Date Sampled	----------	14/01/2014	14/01/2014
Type of sample		soil	soil
Date extracted	-	16/01/2014	16/01/2014
Date analysed	-	16/01/2014	16/01/2014
Naphthalene	mg/kg	<0.1	<0.1
Acenaphthylene	mg/kg	0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1
Phenanthrene	mg/kg	0.7	0.1
Anthracene	mg/kg	0.2	<0.1
Fluoranthene	mg/kg	1.3	0.3
Pyrene	mg/kg	1.3	0.3
Benzo(a)anthracene	mg/kg	0.6	0.1
Chrysene	mg/kg	0.5	0.1
Benzo(b+k)fluoranthene	mg/kg	1.1	0.3
Benzo(a)pyrene	mg/kg	0.80	0.18
Indeno(1,2,3-c,d)pyrene	mg/kg	0.5	0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	0.4	<0.1
Benzo(a)pyrene TEQ NEPM B1	mg/kg	1	<0.5
Total +ve PAH's	mg/kg	7.6	1.5
Surrogate p-Terphenyl-d14	%	100	98

Organochlorine Pesticides in soil			
Our Reference:	UNITS	103547-1	103547-2
Your Reference	----------	QC08-A	QC14-A
Date Sampled	----------	14/01/2014	14/01/2014
Type of sample		soil	soil
Date extracted	-	16/01/2014	16/01/2014
Date analysed	-	17/01/2014	17/01/2014
HCB	mg/kg	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1
Aldrin	mg/kg	0.4	0.2
Heptachlor Epoxide	mg/kg	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1
Dieldrin	mg/kg	0.2	<0.1
Endrin	mg/kg	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1
Surrogate TCMX	%	98	98

PCBs in Soil			
Our Reference:	UNITS	103547-1	103547-2
Your Reference	----------	QC08-A	QC14-A
Date Sampled	----------	14/01/2014	14/01/2014
Type of sample		soil	soil
Date extracted	-	16/01/2014	16/01/2014
Date analysed	-	17/01/2014	17/01/2014
Arochlor 1016	mg/kg	<0.1	<0.1
Arochlor 1221	mg/kg	<0.1	<0.1
Arochlor 1232	mg/kg	<0.1	<0.1
Arochlor 1242	mg/kg	<0.1	<0.1
Arochlor 1248	mg/kg	<0.1	<0.1
Arochlor 1254	mg/kg	<0.1	<0.1
Arochlor 1260	mg/kg	<0.1	<0.1
Surrogate TCLMX	%	98	98

Acid Extractable metals in soil			
Our Reference:	UNITS	103547-1	103547-2
Your Reference	----------	QC08-A	QC14-A
Date Sampled	----------	14/01/2014	14/01/2014
Type of sample		soil	soil
Date digested	-	16/01/2014	16/01/2014
Date analysed	-	16/01/2014	16/01/2014
Arsenic	mg/kg	<4	<4
Cadmium	mg/kg	<0.4	<0.4
Chromium	mg/kg	6	2
Copper	mg/kg	15	2
Lead	mg/kg	250	7
Mercury	mg/kg	0.8	<0.1
Nickel	mg/kg	4	<1
Zinc	mg/kg	90	290

Moisture Our Reference: Your Reference Date Sampled Type of sample	UNITS ---------- ----------	103547-1 QC08-A 14/01/2014 soil	103547-2 QC14-A 14/01/2014 soil
Date prepared	-	16/01/2014	16/01/2014
Date analysed	-	17/01/2014	17/01/2014
Moisture	%	8.5	19

Method ID	Methodology Summary
Org-016	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-014	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-003	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note Naphthalene is determined from the VOC analysis.
Org-012 subset	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.
Org-005	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.
Org-006	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.
Metals-020 ICP-AES	Determination of various metals by ICP-AES.
Metals-021 CV-AAS	Determination of Mercury by Cold Vapour AAS.
Inorg-008	Moisture content determined by heating at 105+/-5 deg C for a minimum of 12 hours.

QUALITY CONTROL vTRH(C6-C10)/BTEXN in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			16/01/2014	[NT]	[NT]	LCS-1	16/01/2014
Date analysed	-			17/01/2014	[NT]	[NT]	LCS-1	17/01/2014
TRHC$_6$ - C$_9$	mg/kg	25	Org-016	<25	[NT]	[NT]	LCS-1	107%
TRHC$_6$ - C$_{10}$	mg/kg	25	Org-016	<25	[NT]	[NT]	LCS-1	107%
Benzene	mg/kg	0.2	Org-016	<0.2	[NT]	[NT]	LCS-1	95%
Toluene	mg/kg	0.5	Org-016	<0.5	[NT]	[NT]	LCS-1	105%
Ethylbenzene	mg/kg	1	Org-016	<1	[NT]	[NT]	LCS-1	109%
m+p-xylene	mg/kg	2	Org-016	<2	[NT]	[NT]	LCS-1	111%
o-Xylene	mg/kg	1	Org-016	<1	[NT]	[NT]	LCS-1	114%
naphthalene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
Surrogate aaa-Trifluorotoluene	%		Org-016	99	[NT]	[NT]	LCS-1	97%
QUALITY CONTROL svTRH (C10-C40) in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			16/01/2014	[NT]	[NT]	LCS-1	16/01/2014
Date analysed	-			16/01/2014	[NT]	[NT]	LCS-1	16/01/2014
TRHC$_{10}$ - C$_{14}$	mg/kg	50	Org-003	<50	[NT]	[NT]	LCS-1	125%
TRHC$_{15}$ - C$_{28}$	mg/kg	100	Org-003	<100	[NT]	[NT]	LCS-1	101%
TRHC$_{29}$ - C$_{36}$	mg/kg	100	Org-003	<100	[NT]	[NT]	LCS-1	92%
TRH>C$_{10}$-C$_{16}$	mg/kg	50	Org-003	<50	[NT]	[NT]	LCS-1	125%
TRH>C$_{16}$-C$_{34}$	mg/kg	100	Org-003	<100	[NT]	[NT]	LCS-1	101%
TRH>C$_{34}$-C$_{40}$	mg/kg	100	Org-003	<100	[NT]	[NT]	LCS-1	92%
Surrogate o-Terphenyl	%		Org-003	93	[NT]	[NT]	LCS-1	102%
QUALITY CONTROL PAHs in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			16/01/2014	[NT]	[NT]	LCS-1	16/01/2014
Date analysed	-			16/01/2014	[NT]	[NT]	LCS-1	16/01/2014
Naphthalene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-1	105%
Acenaphthylene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Acenaphthene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Fluorene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-1	105%
Phenanthrene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-1	102%
Anthracene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Fluoranthene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-1	98%

QUALITY CONTROL PAHs in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base II Duplicate II %RPD	Spike Sm#	Spike % Recovery
Pyrene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-1	105%
Benzo(a)anthracene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Chrysene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-1	99%
Benzo(b+k)fluoranthene	mg/kg	0.2	Org-012 subset	<0.2	[NT]	[NT]	[NR]	[NR]
Benzo(a)pyrene	mg/kg	0.05	Org-012 subset	<0.05	[NT]	[NT]	LCS-1	110%
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Surrogate p-Terphenyl-d14	%		Org-012 subset	97	[NT]	[NT]	LCS-1	101%

QUALITY CONTROL Organochlorine Pesticides in soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base II Duplicate II %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			16/01/2014	[NT]	[NT]	LCS-1	16/01/2014
Date analysed	-			17/01/2014	[NT]	[NT]	LCS-1	17/01/2014
HCB	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
alpha-BHC	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-1	114%
gamma-BHC	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
beta-BHC	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-1	110%
Heptachlor	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-1	116%
delta-BHC	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
Aldrin	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-1	119%
Heptachlor Epoxide	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-1	116%
gamma-Chlordane	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
alpha-chlordane	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
Endosulfan I	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
pp-DDE	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-1	121%
Dieldrin	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-1	117%
Endrin	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-1	108%
pp-DDD	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-1	112%
Endosulfan II	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
pp-DDT	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
Endrin Aldehyde	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
Endosulfan Sulphate	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-1	110%
Methoxychlor	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
Surrogate TCMX	%		Org-005	96	[NT]	[NT]	LCS-1	98%

QUALITY CONTROL PCBs in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			16/01/2014	[NT]	[NT]	LCS-1	16/01/2014
Date analysed	-			17/01/2014	[NT]	[NT]	LCS-1	17/01/2014
Arochlor 1016	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1221	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1232	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1242	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1248	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1254	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	LCS-1	88%
Arochlor 1260	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Surrogate TCLMX	%		Org-006	96	[NT]	[NT]	LCS-1	94%
QUALITY CONTROL Acid Extractable metals in soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date digested	-			[NT]	[NT]	[NT]	LCS-8	16/01/2014
Date analysed	-			[NT]	[NT]	[NT]	LCS-8	16/01/2014
Arsenic	mg/kg	4	Metals-020 ICP-AES	<4	[NT]	[NT]	LCS-8	95%
Cadmium	mg/kg	0.4	Metals-020 ICP-AES	<0.4	[NT]	[NT]	LCS-8	99%
Chromium	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-8	99%
Copper	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-8	99%
Lead	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-8	97%
Mercury	mg/kg	0.1	Metals-021 CV-AAS	<0.1	[NT]	[NT]	LCS-8	99%
Nickel	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-8	99%
Zinc	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-8	98%

QUALITY CONTROL Moisture	UNITS	PQL	METHOD	Blank
Date prepared	-			[NT]
Date analysed	-			[NT]
Moisture	%	0.1	Inorg-008	[NT]

Report Comments:

Asbestos ID was analysed by Approved Identifier:	Not applicable for this job
Asbestos ID was authorised by Approved Signatory:	Not applicable for this job

INS: Insufficient sample for this test	PQL: Practical Quantitation Limit	NT: Not tested
NA: Test not required	RPD: Relative Percent Difference	NA: Test not required
<: Less than	>: Greater than	LCS: Laboratory Control Sample

Quality Control Definitions

Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

Duplicate: This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

Matrix Spike : A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

LCS (Laboratory Control Sample) : This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Surrogate Spike: Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.
Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.
Spikes for Physical and Aggregate Tests are not applicable.
For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.
Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for SVOC and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Envirolab Services Pty Ltd
12 Ashley Street
Chatswood
NSW 2067

Page 1 of 1

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square Block 1T BCD
SEND REPORT TO: N Cussen SEND INVOICE TO: G Ng
DATE NEEDED BY: STD TAT

LABORATORY BATCH NO.:
SAMPLERS: GHen
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: ncussen@jbsg.com.au
QC LEVEL: NEPM (2013)

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	COMBO SUITES: SOIL - 4	SOIL – 4L	SOIL – 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER – 1m	WATER – 2L	WATER – 3L	NOTES:
1	QC08-A	soil	14.1.14		Jar + Ice					X							
2	QC14-A	soil	14.1.14		Jar + Ice					X							

ENVIROLAB

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 103547
Date Received: 15/01
Time Received: 15:30
Received by: SW
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Nathan DATE: 15-1-14 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: Sophie DATE: OF: ELS	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C
NAME: DATE: OF:	CONSIGNMENT NOTE NO. TRANSPORT CO	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO Forms013 – Chain of Custody - Envirolab

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

SAMPLE RECEIPT ADVICE

Client:

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney NSW 2000

ph: 02 8245 0300
Fax: 02 8245 0399

Attention: Joanne Rosner, Nathan Cussen

Sample log in details:

Your reference:	**43182, Green Square Block 15 BCD**
Envirolab Reference:	**103475**
Date received:	14/01/14
Date results expected to be reported:	**21/01/14**

Samples received in appropriate condition for analysis:	YES
No. of samples provided	39 soils
Turnaround time requested:	Standard
Temperature on receipt (°C)	NA
Cooling Method:	None
Sampling Date Provided:	YES

Comments:

Samples will be held for 1 month for water samples and 2 months for soil samples from date of receipt of samples.

Contact details:

Please direct any queries to Aileen Hie or Jacinta Hurst
ph: 02 9910 6200 fax: 02 9910 6201
email: ahie@envirolabservices.com.au or jhurst@envirolabservices.com.au

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

CERTIFICATE OF ANALYSIS 103475

Client:
JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention: Joanne Rosner, Nathan Cussen

Sample log in details:

Your Reference:	**43182, Green Square Block 15 BCD**		
No. of samples:	39 soils		
Date samples received / completed instructions received	14/01/14	/	14/01/14

Analysis Details:
Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by: / Issue Date:	21/01/14	/	20/01/14
Date of Preliminary Report:	Not Issued		

NATA accreditation number 2901. This document shall not be reproduced except in full.
Accredited for compliance with ISO/IEC 17025. **Tests not covered by NATA are denoted with *.**

Results Approved By:

Jacinta Hurst
Laboratory Manager

Asbestos ID - soils WA						
Our Reference:	UNITS	103475-1	103475-4	103475-7	103475-11	103475-12
Your Reference	----------	FC110	FC038	FC040	FC042	FC042
Depth	----------	0.1-0.2	0.1-0.2	0.2-0.3	0.2-0.3	0.8-1.0
Date Sampled		09/01/2014	10/01/2014	10/01/2014	10/01/2014	10/01/2014
Type of sample		soil	soil	soil	soil	soil
Date analysed	-	17/01/2014	17/01/2014	17/01/2014	17/01/2014	17/01/2014
Sample mass tested	g	834.37g	436.19g	747.38g	628.62g	662.79g
Sample Description	-	Beige sandy soil	Black coarse-grained & rocks	Beige-yellow sandy soil	Brown sandy soil	Grey sandy soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected

Asbestos ID - soils WA						
Our Reference:	UNITS	103475-15	103475-17	103475-19	103475-20	103475-23
Your Reference	----------	FC094	FC094	FC043	FC043	FC044
Depth	----------	0.2-0.3	1.7-1.9	0.2-0.3	0.5-0.8	0.1-0.2
Date Sampled		10/01/2014	10/01/2014	10/01/2014	10/01/2014	09/01/2014
Type of sample		soil	soil	soil	soil	soil
Date analysed	-	17/01/2014	17/01/2014	17/01/2014	17/01/2014	17/01/2014
Sample mass tested	g	719.58g	676.53g	643.38g	724.82g	759.57g
Sample Description	-	Beige sandy soil	Grey fine-grained clayey soil	Grey sandy soil	Yellow sandy soil	Grey sandy soil
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected

Asbestos ID - soils WA						
Our Reference:	UNITS	103475-25	103475-28	103475-30	103475-32	103475-35
Your Reference	----------	FC044	FC047	FC047	FC048	FC048
Depth	----------	2.5-2.7	0.1-0.2	1.5-1.7	0.1-0.2	1.8-2.0
Date Sampled		09/01/2014	09/01/2014	09/01/2014	09/01/2014	09/01/2014
Type of sample		soil	soil	soil	soil	soil
Date analysed	-	17/01/2014	17/01/2014	17/01/2014	17/01/2014	17/01/2014
Sample mass tested	g	891.08g	699.08g	768.16g	718.13g	868.69g
Sample Description	-	Pale yellow sandy soil	Beige sandy soil	Grey sandy soil	Grey sandy soil	Yellow sandy soil
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected

Asbestos ID - soils WA		
Our Reference:	UNITS	103475-38
Your Reference	----------	FC039
Depth	----------	0.2-0.3
Date Sampled		10/01/2014
Type of sample		soil
Date analysed	-	17/01/2014
Sample mass tested	g	748.48g
Sample Description	-	Pale yellow sandy soil
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected

Method ID	Methodology Summary
ASB-003	Asbestos ID - Minimum 500mL soil sample was analysed as recommended by "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.1g/kg as per AS4964-2004.

Report Comments:

This report is consistent with the analytical procedures and reporting recommendations in the Western Australian Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009.

Sample 103475-17; Loose fibre bundles of chrysotile and amosite asbestos identified within the sample (total weight 0.0029g). This is 100% asbestos fibres by weight, which in 676.53g of soil is 0.00g/kg (i.e. < reporting limit for the method of 0.1g/kg).

Sample 103475-19; Loose fibre bundles of chrysotile and crocidolite asbestos identified within the sample (total weight 0.0010g). This is 100% asbestos fibres by weight, which in 643.38g of soil is 0.00g/kg (i.e. < reporting limit for the method of 0.1g/kg).

Sample 103475-23; Chrysotile asbestos identified embedded in several fragments of fibre cement (total weight 0.0583g). It is estimated that the fibre cement contains up to 20% asbestos fibres by weight. This calculates to 0.0117g of asbestos fibres, which in 759.57g of soil is 0.02g/kg (i.e. < reporting limit for the method of 0.1g/kg).

Asbestos ID was analysed by Approved Identifier:	Paul Ching
Asbestos ID was authorised by Approved Signatory:	Paul Ching

INS: Insufficient sample for this test	PQL: Practical Quantitation Limit	NT: Not tested
NA: Test not required	RPD: Relative Percent Difference	NA: Test not required
<: Less than	>: Greater than	LCS: Laboratory Control Sample

Quality Control Definitions

Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

Duplicate: This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

Matrix Spike : A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

LCS (Laboratory Control Sample) : This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Surrogate Spike: Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.
Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.
Spikes for Physical and Aggregate Tests are not applicable.
For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.
Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for SVOC and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has

Envirolab Services Pty Ltd
12 Ashley Street
Chatswood
NSW 2067

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square Block 15 bca
SEND REPORT TO: N. Cossen SEND INVOICE TO: G. Ng
DATE NEEDED BY: Std turn around
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: C. Bielby
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: Ncossen@jbsg.com.a
QC LEVEL: NEPM (2013)

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	COMBO SUITES: SOIL - 4	SOIL – 4L	SOIL – 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER – 1m	WATER – 2L	WATER – 3L	Asbestos	NOTES:
1	FC110-0.1-0.2	Soil	9/1/14		500ml Bag												X	
2	FC110-1.1-1.3																	
3	FC110-2.7-2.9																	
4	FC038-0.1-0.2		10/1/14														X	
5	FC038-0.3-0.5																	
6	FC038-2.7-2.9																	
7	FC040-0.2-0.3																X	
8	FC040-1.1-1.3																	
9	FC041-0.2-0.3																	
10	FC041-1.5-1.7																	
11	FC042-0.2-0.3																	
12	FC042-0.8-1.0																X	
13	FC042-1.8-2.0																X	
14	FC042-3.0-3.2																	
15	FC094-0.2-0.3																	
16	FC094-0.6-0.8																X	
17	FC094-1.7-1.9																	
18	FC094-2.8-3.0																X	

ENVIROLAB

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 103475
Date Received: 14/1/14
Time Received: 9:00
Received by: [signature]
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Nicha DATE: 10/1/14	CONSIGNMENT NOTE NO.	NAME: Kevin Wang	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 14/1/14 9:00	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Envirolab

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/}/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

Envirolab Services Pty Ltd
12 Ashley Street
Chatswood
NSW 2067

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square Block 15 bcd
SEND REPORT TO: N. Cussen SEND INVOICE TO: G. Ng
DATE NEEDED BY: Std turn around
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: C. Bielby
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: NCussen@jbsg.com.au
QC LEVEL: NEPM (2013)

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	COMBO SUITES: SOIL - 4	SOIL – 4L	SOIL – 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER – 1m	WATER – 2L	WATER – 3L	Asbestos	NOTES:
19	FC043-0.2-0.3	Soil	10/1/14		500ml Bag													
20	FC043-0.5-0.8																X	
21	FC043-1.8-2.0																X	
22	FC043-2.8-3.0																	
23	FC044-0.1-0.2		9/1/14															
24	FC044-1.0-1.2																X	
25	FC044-2.5-2.7																	
26	FC045-0.1-0.3		10/1/14														X	
27	FC045-1.5-1.8																	
28	FC047-0.1-0.2		9/1/14															
29	FC047-0.5-0.7																X	
30	FC047-1.5-1.7																	
31	FC047-2.8-3.0																X	
32	FC048-0.1-0.2																	
33	FC048-0.5-0.7																X	
34	FC048-1.0-1.2																	
35	FC048-1.8-2.0																	
36	FC048-2.9-3.1																X	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Nathan DATE: 10/1/14	CONSIGNMENT NOTE NO.	NAME: Keerth Wang	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 14/1/14 5:00	
NAME: DATE:	CONSIGNMENT NOTE NO.	OF: ECS	COOLER TEMP ..... deg C
OF:	TRANSPORT CO	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
		OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Envirolab

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

Envirolab Services Pty Ltd
12 Ashley Street
Chatswood
NSW 2067

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square Block 15 bcd
SEND REPORT TO: N. Cussen SEND INVOICE TO: G. Ng
DATE NEEDED BY: Std turn around
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: C. Bielby
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: Ncussen@jbsg.com.au
QC LEVEL: NEPM (2013)

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	SOIL - 4	SOIL – 4L	SOIL – 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER – 1m	WATER – 2L	WATER – 3L	Asbestos	NOTES:
37	FC094-4.1-4.3	Soil	10/1/14		500mL Bag													
38	FC039 0.2-0.3																X	
39	FC039 1.1-1.3																	

COMBO SUITES

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Nathan DATE: 14/1/14 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: Kevin Wang DATE: 14/1/14 9:00 OF: ELS	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C
NAME: DATE: OF:	CONSIGNMENT NOTE NO. TRANSPORT CO	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Envirolab

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

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NATA # 1261
Site # 1254 & 14271

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Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Sample Receipt Advice

Company name:	**JBS & G (NSW & WA) Pty Ltd**
Contact name:	Nathan Cussen
Client job number:	ADDITIONAL: GREEN SQUARE BLOCK 15A 43182
COC number:	Not provided
Turn around time:	5 Day
Date/Time received:	Jan 20, 2014 6:10 PM
Eurofins | mgt reference:	**406076**

Sample information

☑ A detailed list of analytes logged into our LIMS, is included in the attached summary table.

☑ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt Sample Receipt : 7 degrees Celsius.

☑ All samples have been received as described on the above COC.

☑ COC has been completed correctly.

☑ Attempt to chill was evident.

☑ Appropriately preserved sample containers have been used.

☑ All samples were received in good condition.

☑ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.

☑ Organic samples had Teflon liners.

☒ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Notes

Additional from 405416

Contact notes

If you have any questions with respect to these samples please contact:

Jean Heng on Phone : (+61) (2) 9900 8400 or by e.mail: JeanHeng@eurofins.com.au

Results will be delivered electronically via e.mail to Nathan Cussen - ncussen@jbsg.com.au.

Eurofins | mgt Sample Receipt

eurofins | mgt

ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

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1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: ADDITIONAL: GREEN SQUARE BLOCK 15A 43182

Order No.:
Report #: 406076
Phone: 02 8245 0300
Fax:

Received: Jan 20, 2014 6:10 PM
Due: Jan 29, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Lead	Polycyclic Aromatic Hydrocarbons	Toxicity Characteristic Leaching Procedure (TCLP)	Metals M8
Laboratory where analysis is conducted									
Melbourne Laboratory - NATA Site # 1254 & 14271									
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794									
External Laboratory									
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**					
FC096 0.5-0.6	Jan 10, 2014		TCLP	S14-Ja08619	X		X	X	X
FC051 1.2-1.4	Jan 10, 2014		TCLP	S14-Ja08620	X	X	X	X	
FC049 1.0-1.2	Jan 10, 2014		TCLP	S14-Ja08621	X	X	X	X	
FC096 1.8-2.0	Jan 10, 2014		TCLP	S14-Ja08622	X	X		X	
FC052 2.8-3.0	Jan 10, 2014		TCLP	S14-Ja08623	X	X		X	

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Certificate of Analysis

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Nathan Cussen**

Report **406076-L**
Client Reference ADDITIONAL: GREEN SQUARE BLOCK 15A 43182
Received Date Jan 20, 2014

Client Sample ID **Sample Matrix** **Eurofins | mgt Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**FC096 0.5-0.6** **TCLP** **S14-Ja08619** **Jan 10, 2014**	**FC051 1.2-1.4** **TCLP** **S14-Ja08620** **Jan 10, 2014**	**FC049 1.0-1.2** **TCLP** **S14-Ja08621** **Jan 10, 2014**	**FC096 1.8-2.0** **TCLP** **S14-Ja08622** **Jan 10, 2014**
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.001	mg/L	< 0.001	0.002	0.002	-
Acenaphthylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Benz(a)anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Benzo(a)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Benzo(g.h.i)perylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Benzo(k)fluoranthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Chrysene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Dibenz(a.h)anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Fluoranthene	0.001	mg/L	0.002	0.003	< 0.001	-
Fluorene	0.001	mg/L	< 0.001	0.001	< 0.001	-
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Naphthalene	0.001	mg/L	< 0.001	0.001	0.001	-
Phenanthrene	0.001	mg/L	0.002	0.005	0.001	-
Pyrene	0.001	mg/L	0.002	0.003	< 0.001	-
Total PAH	0.002	mg/L	0.006	0.015	0.004	-
2-Fluorobiphenyl (surr.)	1	%	113	118	87	-
p-Terphenyl-d14 (surr.)	1	%	130	110	87	-
Heavy Metals						
Arsenic	0.01	mg/L	< 0.01	-	-	-
Cadmium	0.005	mg/L	< 0.005	-	-	-
Chromium	0.05	mg/L	< 0.05	-	-	-
Copper	0.05	mg/L	< 0.05	-	-	-
Lead	0.01	mg/L	1.0	0.27	0.44	0.76
Mercury	0.001	mg/L	< 0.001	-	-	-
Nickel	0.05	mg/L	< 0.05	-	-	-
Zinc	0.05	mg/L	1.9	-	-	-
% Moisture	0.1	%	6.6	6.4	11	6.3
Toxicity Characteristic Leaching Procedure (TCLP)						
Leachate Fluid[C01]		comment	1.0	1.0	1.0	1.0
pH (TCLP - HCl addition)	0.1	units	1.9	1.5	1.5	1.5
pH (TCLP - initial)	0.1	units	9.2	7.2	7.6	8.6
pH (TCLP - off)	0.1	units	6.6	5.5	5.4	6.3

Client Sample ID			FC052 2.8-3.0
Sample Matrix			**TCLP**
Eurofins | mgt Sample No.			**S14-Ja08623**
Date Sampled			**Jan 10, 2014**
Test/Reference	LOR	Unit	
Heavy Metals			
Lead	0.01	mg/L	2.1
% Moisture	0.1	%	11
Toxicity Characteristic Leaching Procedure (TCLP)			
Leachate Fluid[C01]		comment	1.0
pH (TCLP - HCl addition)	0.1	units	1.6
pH (TCLP - initial)	0.1	units	9.1
pH (TCLP - off)	0.1	units	6.0

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Polycyclic Aromatic Hydrocarbons	Sydney	Jan 23, 2014	7 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Metals M8	Sydney	Jan 22, 2014	28 Day
- Method: E022 Acid Extractable metals in Soils & E026 Mercury			
Heavy Metals	Sydney	Jan 22, 2014	180 Day
- Method: E022 Acid Extractable metals in Soils			
% Moisture	Sydney	Jan 22, 2014	0 Day
- Method: E005 Moisture Content			
Toxicity Characteristic Leaching Procedure (TCLP)	Sydney	Jan 22, 2014	0 Day
- Method: E019 TCLP Preparation			

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1/21 Smallwood Place
Murarrie QLD 4172
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Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: ADDITIONAL: GREEN SQUARE BLOCK 15A 43182

Order No.:
Report #: 406076
Phone: 02 8245 0300
Fax:

Received: Jan 20, 2014 6:10 PM
Due: Jan 29, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Lead	Polycyclic Aromatic Hydrocarbons	Toxicity Characteristic Leaching Procedure (TCLP)	Metals M8
Laboratory where analysis is conducted									
Melbourne Laboratory - NATA Site # 1254 & 14271									
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794									
External Laboratory									
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**					
FC096 0.5-0.6	Jan 10, 2014		TCLP	S14-Ja08619	X		X	X	X
FC051 1.2-1.4	Jan 10, 2014		TCLP	S14-Ja08620	X	X	X	X	
FC049 1.0-1.2	Jan 10, 2014		TCLP	S14-Ja08621	X	X	X	X	
FC096 1.8-2.0	Jan 10, 2014		TCLP	S14-Ja08622	X	X		X	
FC052 2.8-3.0	Jan 10, 2014		TCLP	S14-Ja08623	X	X		X	

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/L	< 0.001			0.001	Pass	
Acenaphthylene	mg/L	< 0.001			0.001	Pass	
Anthracene	mg/L	< 0.001			0.001	Pass	
Benz(a)anthracene	mg/L	< 0.001			0.001	Pass	
Benzo(a)pyrene	mg/L	< 0.001			0.001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.001			0.001	Pass	
Benzo(g.h.i)perylene	mg/L	< 0.001			0.001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.001			0.001	Pass	
Chrysene	mg/L	< 0.001			0.001	Pass	
Dibenz(a.h)anthracene	mg/L	< 0.001			0.001	Pass	
Fluoranthene	mg/L	< 0.001			0.001	Pass	
Fluorene	mg/L	< 0.001			0.001	Pass	
Indeno(1.2.3-cd)pyrene	mg/L	< 0.001			0.001	Pass	
Naphthalene	mg/L	< 0.001			0.001	Pass	
Phenanthrene	mg/L	< 0.001			0.001	Pass	
Pyrene	mg/L	< 0.001			0.001	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S14-Ja09745	NCP	%	118			70-130	Pass	
Acenaphthylene	S14-Ja09745	NCP	%	110			70-130	Pass	
Anthracene	S14-Ja09745	NCP	%	115			70-130	Pass	
Benz(a)anthracene	S14-Ja09745	NCP	%	109			70-130	Pass	
Benzo(a)pyrene	S14-Ja09745	NCP	%	123			70-130	Pass	
Benzo(b&j)fluoranthene	S14-Ja09745	NCP	%	111			70-130	Pass	
Benzo(g.h.i)perylene	S14-Ja09745	NCP	%	102			70-130	Pass	
Benzo(k)fluoranthene	S14-Ja09745	NCP	%	123			70-130	Pass	
Chrysene	S14-Ja09745	NCP	%	120			70-130	Pass	
Dibenz(a.h)anthracene	S14-Ja09745	NCP	%	101			70-130	Pass	
Fluoranthene	S14-Ja09745	NCP	%	126			70-130	Pass	
Fluorene	S14-Ja09745	NCP	%	120			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja09745	NCP	%	108			70-130	Pass	
Naphthalene	S14-Ja09745	NCP	%	129			70-130	Pass	
Phenanthrene	S14-Ja09745	NCP	%	123			70-130	Pass	
Pyrene	S14-Ja09745	NCP	%	127			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1	Result 2	RPD	Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Acenaphthylene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Anthracene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benz(a)anthracene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(a)pyrene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(b&j)fluoranthene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(g.h.i)perylene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(k)fluoranthene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chrysene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibenz(a.h)anthracene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluoranthene	S14-Ja09744	NCP	mg/L	0.0033	0.0028	14	30%	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Fluorene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Naphthalene	S14-Ja09744	NCP	mg/L	0.017	0.017	1.0	30%	Pass	
Phenanthrene	S14-Ja09744	NCP	mg/L	0.0030	0.0027	9.0	30%	Pass	
Pyrene	S14-Ja09744	NCP	mg/L	0.0029	0.0025	13	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S14-Ja04561	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Cadmium	S14-Ja04561	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Chromium	S14-Ja04561	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Copper	S14-Ja04561	NCP	mg/L	0.22	0.22	1.0	30%	Pass	
Lead	S14-Ja04561	NCP	mg/L	0.13	0.13	2.0	30%	Pass	
Mercury	S14-Ja04561	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Nickel	S14-Ja04561	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Zinc	S14-Ja04561	NCP	mg/L	0.18	0.19	1.0	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
C01	Leachate Fluid Key: 1 - pH 5.0, 2 - pH 2.9, 3 - pH 9.2, 4 - Reagent (DI) water, 5 - Client sample, 6 - other
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs

Authorised By

Jean Heng	Client Services
James Norford	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)

Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

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From: Nathan Cussen [mailto:NCussen@jbsg.com.au]
Sent: Monday, 20 January 2014 6:09 PM
To: Jean Heng
Subject: Lab Batch 405416 - Green Square Block 15A 43182

Hi Jean,

Can I please schedule the following TCLP's:

- FC096 0.5-0.6 for metals and PAH;
- FC051 1.2-1.4 for lead and PAH;
- FC049 1.0-1.2 for lead and PAH;
- FC096 1.8-2.0 for lead; and
- FC052 2.8-3.0 for lead.

#406076

Regards,
Nathan

Nathan Cussen | Senior Environmental Consultant| JBS&G
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Level 1, 50 Margaret Street, Sydney NSW 2000
T: 02 8245 0300 | M: 0431 401 022| www.jbsg.com.au
Contaminated Land | Groundwater Remediation | Auditing and Compliance | Assessments and Approvals | Occupational Hygiene and Monitoring

If you would like to send through large electronic files (>25MB), please use JBS&G's secure internet-based file delivery system located at http://dropbox.yousendit.com/JBSG. Place 'Nathan Cussen - Sydney in the subject.
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ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

Melbourne
3-5 Kingston Town Close
Oakleigh Vic 3166
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F6, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Sample Receipt Advice

Company name: **JBS & G (NSW & WA) Pty Ltd**

Contact name: Nathan Cussen
Client job number: GREEN SQUARE BLOCK 15A 43182
COC number: Not provided
Turn around time: 5 Day
Date/Time received: Jan 15, 2014 3:45 PM
Eurofins | mgt reference: **405751**

Sample information

☑ A detailed list of analytes logged into our LIMS, is included in the attached summary table.

☑ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt Sample Receipt : 11 degrees Celsius.

☑ All samples have been received as described on the above COC.

☑ COC has been completed correctly.

☑ Attempt to chill was evident.

☑ Appropriately preserved sample containers have been used.

☑ All samples were received in good condition.

☑ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.

☑ Organic samples had Teflon liners.

☑ Sample containers for volatile analysis received with zero headspace.

☒ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Notes

Trip Spike broken upon receipt| Rinsate metals logged in as total.

Contact notes

If you have any questions with respect to these samples please contact:

Jean Heng on Phone : (+61) (2) 9900 8400 or by e.mail: JeanHeng@eurofins.com.au

Results will be delivered electronically via e.mail to Nathan Cussen - ncussen@jbsg.com.au.

Eurofins | mgt Sample Receipt

eurofins | mgt

ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

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Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: GREEN SQUARE BLOCK 15A 43182

Order No.:
Report #: 405751
Phone: 02 8245 0300
Fax:

Received: Jan 15, 2014 3:45 PM
Due: Jan 22, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Total Recoverable Hydrocarbons
Laboratory where analysis is conducted											
Melbourne Laboratory - NATA Site # 1254 & 14271											
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794											
External Laboratory											
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**							
FC096 5.5 -5.7	Jan 13, 2014		Soil	S14-Ja06202	X			X	X		X
FC096 6.1-6.3	Jan 13, 2014		Soil	S14-Ja06203			X				
FC096 7.3-7.5	Jan 13, 2014		Soil	S14-Ja06204	X			X	X		X
FC052 6.5-6.8	Jan 13, 2014		Soil	S14-Ja06205	X			X	X		X
TRIP SPIKE	Jan 12, 2014		Water	S14-Ja06206		X					
STORAGE BLANK	Jan 12, 2014		Water	S14-Ja06207						X	
RINSATE	Jan 12, 2014		Water	S14-Ja06208				X	X	X	X

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Certificate of Analysis

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention: **Nathan Cussen**

Report **405751-W**
Client Reference GREEN SQUARE BLOCK 15A 43182
Received Date Jan 15, 2014

Client Sample ID			**STORAGE BLANK**	**RINSATE**
Sample Matrix			**Water**	**Water**
Eurofins | mgt Sample No.			**S14-Ja06207**	**S14-Ja06208**
Date Sampled			**Jan 12, 2014**	**Jan 12, 2014**
Test/Reference	LOR	Unit		
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				
TRH C6-C9	0.02	mg/L	-	< 0.02
TRH C10-C14	0.05	mg/L	-	< 0.05
TRH C15-C28	0.1	mg/L	-	< 0.1
TRH C29-C36	0.1	mg/L	-	< 0.1
TRH C10-36 (Total)	0.1	mg/L	-	< 0.1
BTEX				
Benzene	0.001	mg/L	< 0.001	< 0.001
Toluene	0.001	mg/L	< 0.001	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.002
o-Xylene	0.001	mg/L	< 0.001	< 0.001
Xylenes - Total	0.003	mg/L	< 0.003	< 0.003
4-Bromofluorobenzene (surr.)	1	%	80	78
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				
Naphthalene[N02]	0.02	mg/L	-	< 0.02
TRH C6-C10	0.02	mg/L	-	< 0.02
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	-	< 0.02
TRH >C10-C16	0.05	mg/L	-	< 0.05
TRH >C10-C16 less Naphthalene (F2)[N01]	0.05	mg/L	-	< 0.05
TRH >C16-C34	0.1	mg/L	-	< 0.1
TRH >C34-C40	0.1	mg/L	-	< 0.1
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	0.001	mg/L	-	< 0.001
Acenaphthylene	0.001	mg/L	-	< 0.001
Anthracene	0.001	mg/L	-	< 0.001
Benz(a)anthracene	0.001	mg/L	-	< 0.001
Benzo(a)pyrene	0.001	mg/L	-	< 0.001
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	-	< 0.001
Benzo(g.h.i)perylene	0.001	mg/L	-	< 0.001
Benzo(k)fluoranthene	0.001	mg/L	-	< 0.001
Chrysene	0.001	mg/L	-	< 0.001
Dibenz(a.h)anthracene	0.001	mg/L	-	< 0.001
Fluoranthene	0.001	mg/L	-	< 0.001
Fluorene	0.001	mg/L	-	< 0.001
Indeno(1.2.3-cd)pyrene	0.001	mg/L	-	< 0.001
Naphthalene	0.001	mg/L	-	< 0.001

Client Sample ID			STORAGE BLANK	RINSATE
Sample Matrix			**Water**	**Water**
Eurofins | mgt Sample No.			**S14-Ja06207**	**S14-Ja06208**
Date Sampled			**Jan 12, 2014**	**Jan 12, 2014**
Test/Reference	LOR	Unit		
Polycyclic Aromatic Hydrocarbons				
Phenanthrene	0.001	mg/L	-	< 0.001
Pyrene	0.001	mg/L	-	< 0.001
Total PAH	0.001	mg/L	-	< 0.001
2-Fluorobiphenyl (surr.)	1	%	-	112
p-Terphenyl-d14 (surr.)	1	%	-	121
Heavy Metals				
Arsenic	0.005	mg/L	-	< 0.005
Cadmium	0.0005	mg/L	-	< 0.0005
Chromium	0.005	mg/L	-	< 0.005
Copper	0.005	mg/L	-	< 0.005
Lead	0.005	mg/L	-	< 0.005
Mercury	0.0001	mg/L	-	< 0.0001
Nickel	0.005	mg/L	-	< 0.005
Zinc	0.005	mg/L	-	< 0.005

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Jan 17, 2014	7 Day
- Method: E004 Petroleum Hydrocarbons (TPH)			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jan 17, 2014	7 Day
- Method: LM-LTM-ORG2010			
BTEX	Sydney	Jan 16, 2014	14 Day
- Method: E029/E016 BTEX			
Polycyclic Aromatic Hydrocarbons	Sydney	Jan 17, 2014	7 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Metals M8	Sydney	Jan 16, 2014	28 Day
- Method: E022/E030 Unfiltered Metals in Water & E026 Mercury			

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Company Name: JBS & G (NSW & WA) Pty Ltd
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Received: Jan 15, 2014 3:45 PM
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Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Total Recoverable Hydrocarbons
Laboratory where analysis is conducted											
Melbourne Laboratory - NATA Site # 1254 & 14271											
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794											
External Laboratory											
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**							
FC096 5.5 -5.7	Jan 13, 2014		Soil	S14-Ja06202	X			X	X		X
FC096 6.1-6.3	Jan 13, 2014		Soil	S14-Ja06203			X				
FC096 7.3-7.5	Jan 13, 2014		Soil	S14-Ja06204	X			X	X		X
FC052 6.5-6.8	Jan 13, 2014		Soil	S14-Ja06205	X			X	X		X
TRIP SPIKE	Jan 12, 2014		Water	S14-Ja06206		X					
STORAGE BLANK	Jan 12, 2014		Water	S14-Ja06207						X	
RINSATE	Jan 12, 2014		Water	S14-Ja06208				X	X	X	X

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/L	< 0.02			0.02	Pass	
TRH C10-C14	mg/L	< 0.05			0.05	Pass	
TRH C15-C28	mg/L	< 0.1			0.1	Pass	
TRH C29-C36	mg/L	< 0.1			0.1	Pass	
Method Blank							
BTEX							
Benzene	mg/L	< 0.001			0.001	Pass	
Toluene	mg/L	< 0.001			0.001	Pass	
Ethylbenzene	mg/L	< 0.001			0.001	Pass	
m&p-Xylenes	mg/L	< 0.002			0.002	Pass	
o-Xylene	mg/L	< 0.001			0.001	Pass	
Xylenes - Total	mg/L	< 0.003			0.003	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/L	< 0.02			0.02	Pass	
TRH C6-C10	mg/L	< 0.02			0.02	Pass	
TRH C6-C10 less BTEX (F1)	mg/L	< 0.02			0.02	Pass	
TRH >C10-C16	mg/L	< 0.05			0.05	Pass	
TRH >C16-C34	mg/L	< 0.1			0.1	Pass	
TRH >C34-C40	mg/L	< 0.1			0.1	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/L	< 0.001			0.001	Pass	
Acenaphthylene	mg/L	< 0.001			0.001	Pass	
Anthracene	mg/L	< 0.001			0.001	Pass	
Benz(a)anthracene	mg/L	< 0.001			0.001	Pass	
Benzo(a)pyrene	mg/L	< 0.001			0.001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.001			0.001	Pass	
Benzo(g.h.i)perylene	mg/L	< 0.001			0.001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.001			0.001	Pass	
Chrysene	mg/L	< 0.001			0.001	Pass	
Dibenz(a.h)anthracene	mg/L	< 0.001			0.001	Pass	
Fluoranthene	mg/L	< 0.001			0.001	Pass	
Fluorene	mg/L	< 0.001			0.001	Pass	
Indeno(1.2.3-cd)pyrene	mg/L	< 0.001			0.001	Pass	
Naphthalene	mg/L	< 0.001			0.001	Pass	
Phenanthrene	mg/L	< 0.001			0.001	Pass	
Pyrene	mg/L	< 0.001			0.001	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.005			0.005	Pass	
Cadmium	mg/L	< 0.0005			0.0005	Pass	
Chromium	mg/L	< 0.005			0.005	Pass	
Copper	mg/L	< 0.005			0.005	Pass	
Lead	mg/L	< 0.005			0.005	Pass	
Mercury	mg/L	< 0.0001			0.0001	Pass	
Nickel	mg/L	< 0.005			0.005	Pass	
Zinc	mg/L	< 0.005			0.005	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
TRH C6-C9	%	84			70-130	Pass	
TRH C10-C14	%	83			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	110			70-130	Pass	
Toluene	%	104			70-130	Pass	
Ethylbenzene	%	104			70-130	Pass	
m&p-Xylenes	%	109			70-130	Pass	
o-Xylene	%	110			70-130	Pass	
Xylenes - Total	%	109			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	87			70-130	Pass	
TRH C6-C10	%	89			70-130	Pass	
TRH >C10-C16	%	87			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	84			70-130	Pass	
Acenaphthylene	%	88			70-130	Pass	
Anthracene	%	80			70-130	Pass	
Benz(a)anthracene	%	77			70-130	Pass	
Benzo(a)pyrene	%	82			70-130	Pass	
Benzo(b&j)fluoranthene	%	78			70-130	Pass	
Benzo(g.h.i)perylene	%	75			70-130	Pass	
Benzo(k)fluoranthene	%	83			70-130	Pass	
Chrysene	%	83			70-130	Pass	
Dibenz(a.h)anthracene	%	79			70-130	Pass	
Fluoranthene	%	80			70-130	Pass	
Fluorene	%	85			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	79			70-130	Pass	
Naphthalene	%	88			70-130	Pass	
Phenanthrene	%	80			70-130	Pass	
Pyrene	%	80			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	104			70-130	Pass	
Cadmium	%	110			70-130	Pass	
Chromium	%	106			70-130	Pass	
Copper	%	106			70-130	Pass	
Lead	%	110			70-130	Pass	
Mercury	%	102			70-130	Pass	
Nickel	%	104			70-130	Pass	
Zinc	%	106			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
BTEX				Result 1					
Benzene	S14-Ja05302	NCP	%	108			70-130	Pass	
Toluene	S14-Ja05302	NCP	%	102			70-130	Pass	
Ethylbenzene	S14-Ja05302	NCP	%	101			70-130	Pass	
m&p-Xylenes	S14-Ja05302	NCP	%	102			70-130	Pass	
o-Xylene	S14-Ja05302	NCP	%	102			70-130	Pass	
Xylenes - Total	S14-Ja05302	NCP	%	102			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
TRH C6-C9	S14-Ja05302	NCP	%	98			70-130	Pass	
TRH C10-C14	S14-Ja07076	NCP	%	92			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S14-Ja05302	NCP	%	87			70-130	Pass	
TRH C6-C10	S14-Ja05302	NCP	%	100			70-130	Pass	
TRH >C10-C16	S14-Ja07076	NCP	%	97			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S14-Ja07042	NCP	%	90			70-130	Pass	
Acenaphthylene	S14-Ja07042	NCP	%	88			70-130	Pass	
Anthracene	S14-Ja07042	NCP	%	84			70-130	Pass	
Benz(a)anthracene	S14-Ja07042	NCP	%	80			70-130	Pass	
Benzo(a)pyrene	S14-Ja07042	NCP	%	89			70-130	Pass	
Benzo(b&j)fluoranthene	S14-Ja07042	NCP	%	82			70-130	Pass	
Benzo(g.h.i)perylene	S14-Ja07042	NCP	%	86			70-130	Pass	
Benzo(k)fluoranthene	S14-Ja07042	NCP	%	92			70-130	Pass	
Chrysene	S14-Ja07042	NCP	%	91			70-130	Pass	
Dibenz(a.h)anthracene	S14-Ja07042	NCP	%	83			70-130	Pass	
Fluoranthene	S14-Ja07042	NCP	%	85			70-130	Pass	
Fluorene	S14-Ja07042	NCP	%	92			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja07042	NCP	%	81			70-130	Pass	
Naphthalene	S14-Ja07042	NCP	%	99			70-130	Pass	
Phenanthrene	S14-Ja07042	NCP	%	83			70-130	Pass	
Pyrene	S14-Ja07042	NCP	%	85			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S14-Ja06163	NCP	%	90			70-130	Pass	
Cadmium	S14-Ja06163	NCP	%	96			70-130	Pass	
Chromium	S14-Ja06163	NCP	%	92			70-130	Pass	
Copper	S14-Ja06163	NCP	%	92			70-130	Pass	
Lead	S14-Ja06163	NCP	%	96			70-130	Pass	
Mercury	S14-Ja06163	NCP	%	91			70-130	Pass	
Nickel	S14-Ja06163	NCP	%	91			70-130	Pass	
Zinc	S14-Ja06163	NCP	%	91			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S14-Ja05301	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Toluene	S14-Ja05301	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Ethylbenzene	S14-Ja05301	NCP	mg/L	0.0010	0.0012	4.0	30%	Pass	
m&p-Xylenes	S14-Ja05301	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
o-Xylene	S14-Ja05301	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Xylenes - Total	S14-Ja05301	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S14-Ja05301	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH C10-C14	S14-Ja07075	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH C15-C28	S14-Ja07075	NCP	mg/L	0.30	0.20	20	30%	Pass	
TRH C29-C36	S14-Ja07075	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	

Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S14-Ja05301	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH C6-C10	S14-Ja05301	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S14-Ja05301	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH >C10-C16	S14-Ja07075	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH >C16-C34	S14-Ja07075	NCP	mg/L	0.30	0.20	15	30%	Pass	
TRH >C34-C40	S14-Ja07075	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S14-Ja07041	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Acenaphthylene	S14-Ja07041	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Anthracene	S14-Ja07041	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benz(a)anthracene	S14-Ja07041	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(a)pyrene	S14-Ja07041	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(b&j)fluoranthene	S14-Ja07041	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(g.h.i)perylene	S14-Ja07041	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(k)fluoranthene	S14-Ja07041	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chrysene	S14-Ja07041	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibenz(a.h)anthracene	S14-Ja07041	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluoranthene	S14-Ja07041	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluorene	S14-Ja07041	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja07041	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Naphthalene	S14-Ja07041	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Phenanthrene	S14-Ja07041	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Pyrene	S14-Ja07041	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S14-Ja06208	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Cadmium	S14-Ja06208	CP	mg/L	< 0.0005	< 0.0005	<1	30%	Pass	
Chromium	S14-Ja06208	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Copper	S14-Ja06208	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Lead	S14-Ja06208	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Mercury	S14-Ja06208	CP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel	S14-Ja06208	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Zinc	S14-Ja06208	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs

Authorised By

Jean Heng	Client Services
James Norford	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)
Ryan Hamilton	Senior Analyst-Volatile (NSW)

Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

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Certificate of Analysis

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Nathan Cussen**

Report **405751-S**
Client Reference GREEN SQUARE BLOCK 15A 43182
Received Date Jan 15, 2014

Client Sample ID **Sample Matrix** **Eurofins | mgt Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**FC096 5.5 -5.7** **Soil** **S14-Ja06202** **Jan 13, 2014**	**FC096 7.3-7.5** **Soil** **S14-Ja06204** **Jan 13, 2014**	**FC052 6.5-6.8** **Soil** **S14-Ja06205** **Jan 13, 2014**
Total Recoverable Hydrocarbons - 1999 NEPM Fractions					
TRH C6-C9	20	mg/kg	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50
TRH C10-36 (Total)	50	mg/kg	< 50	< 50	< 50
Total Recoverable Hydrocarbons - 2013 NEPM Fractions					
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100
Polycyclic Aromatic Hydrocarbons					
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	1.0
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	1.0
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	1.0
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	0.8
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	1.7
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	1.6
Total PAH	0.5	mg/kg	< 0.5	< 0.5	7.6
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	< 0.5	< 0.5	1.2
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	0.6	0.6	1.5
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	1.2	1.2	1.8
2-Fluorobiphenyl (surr.)	1	%	87	89	95
p-Terphenyl-d14 (surr.)	1	%	99	101	110

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC096 5.5 -5.7 Soil S14-Ja06202 Jan 13, 2014	FC096 7.3-7.5 Soil S14-Ja06204 Jan 13, 2014	FC052 6.5-6.8 Soil S14-Ja06205 Jan 13, 2014
Heavy Metals					
Arsenic	2	mg/kg	< 2	< 2	4.7
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	< 5	5.5
Copper	5	mg/kg	5.9	< 5	36
Lead	5	mg/kg	13	20	79
Mercury	0.05	mg/kg	< 0.05	< 0.05	0.36
Nickel	5	mg/kg	< 5	< 5	< 5
Zinc	5	mg/kg	16	20	140
% Moisture	0.1	%	20	19	24

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Jan 17, 2014	14 Day
- Method: E004 Petroleum Hydrocarbons (TPH)			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jan 17, 2014	14 Day
- Method: LM-LTM-ORG2010			
Polycyclic Aromatic Hydrocarbons	Sydney	Jan 17, 2014	14 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Metals M8	Sydney	Jan 17, 2014	28 Day
- Method: E022 Acid Extractable metals in Soils & E026 Mercury			
% Moisture	Sydney	Jan 17, 2014	28 Day
- Method: E005 Moisture Content			

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Address: Level 1, 50 Margaret St
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NSW 2000

Client Job No.: GREEN SQUARE BLOCK 15A 43182

Order No.:
Report #: 405751
Phone: 02 8245 0300
Fax:

Received: Jan 15, 2014 3:45 PM
Due: Jan 22, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Total Recoverable Hydrocarbons
Laboratory where analysis is conducted											
Melbourne Laboratory - NATA Site # 1254 & 14271											
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794											
External Laboratory											
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**							
FC096 5.5 -5.7	Jan 13, 2014		Soil	S14-Ja06202	X			X	X		X
FC096 6.1-6.3	Jan 13, 2014		Soil	S14-Ja06203			X				
FC096 7.3-7.5	Jan 13, 2014		Soil	S14-Ja06204	X			X	X		X
FC052 6.5-6.8	Jan 13, 2014		Soil	S14-Ja06205	X			X	X		X
TRIP SPIKE	Jan 12, 2014		Water	S14-Ja06206		X					
STORAGE BLANK	Jan 12, 2014		Water	S14-Ja06207						X	
RINSATE	Jan 12, 2014		Water	S14-Ja06208				X	X	X	X

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

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Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH C6-C10 less BTEX (F1)	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.05			0.05	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	94			70-130	Pass	
TRH C10-C14	%	76			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	98			70-130	Pass	
TRH C6-C10	%	95			70-130	Pass	
TRH >C10-C16	%	81			70-130	Pass	
LCS - % Recovery							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	117			70-130	Pass	
Acenaphthylene	%	116			70-130	Pass	
Anthracene	%	110			70-130	Pass	
Benz(a)anthracene	%	112			70-130	Pass	
Benzo(a)pyrene	%	122			70-130	Pass	
Benzo(b&j)fluoranthene	%	105			70-130	Pass	
Benzo(g.h.i)perylene	%	125			70-130	Pass	
Benzo(k)fluoranthene	%	122			70-130	Pass	
Chrysene	%	120			70-130	Pass	
Dibenz(a.h)anthracene	%	122			70-130	Pass	
Fluoranthene	%	118			70-130	Pass	
Fluorene	%	111			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	123			70-130	Pass	
Naphthalene	%	114			70-130	Pass	
Phenanthrene	%	109			70-130	Pass	
Pyrene	%	108			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	79			70-130	Pass	
Cadmium	%	77			70-130	Pass	
Chromium	%	82			70-130	Pass	
Copper	%	82			70-130	Pass	
Lead	%	82			70-130	Pass	
Mercury	%	111			70-130	Pass	
Nickel	%	86			70-130	Pass	
Zinc	%	89			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S14-Ja06185	NCP	%	86			70-130	Pass	
TRH C10-C14	S14-Ja06185	NCP	%	79			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S14-Ja05802	NCP	%	71			70-130	Pass	
TRH C6-C10	S14-Ja06185	NCP	%	85			70-130	Pass	
TRH >C10-C16	S14-Ja06185	NCP	%	86			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S14-Ja06447	NCP	%	126			70-130	Pass	
Acenaphthylene	S14-Ja06447	NCP	%	114			70-130	Pass	
Anthracene	S14-Ja06447	NCP	%	123			70-130	Pass	
Benz(a)anthracene	S14-Ja06447	NCP	%	122			70-130	Pass	
Benzo(a)pyrene	S14-Ja06447	NCP	%	130			70-130	Pass	
Benzo(b&j)fluoranthene	S14-Ja06447	NCP	%	99			70-130	Pass	
Benzo(g.h.i)perylene	S14-Ja06447	NCP	%	129			70-130	Pass	
Benzo(k)fluoranthene	S14-Ja06447	NCP	%	124			70-130	Pass	
Chrysene	S14-Ja06447	NCP	%	121			70-130	Pass	
Dibenz(a.h)anthracene	S14-Ja06447	NCP	%	126			70-130	Pass	
Fluoranthene	S14-Ja06447	NCP	%	129			70-130	Pass	
Fluorene	S14-Ja06447	NCP	%	129			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja06447	NCP	%	127			70-130	Pass	
Naphthalene	S14-Ja06447	NCP	%	125			70-130	Pass	
Phenanthrene	S14-Ja06447	NCP	%	130			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Pyrene	S14-Ja06447	NCP	%	129			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S14-Ja05820	NCP	%	85			70-130	Pass	
Cadmium	S14-Ja05820	NCP	%	79			70-130	Pass	
Chromium	S14-Ja05820	NCP	%	88			70-130	Pass	
Copper	S14-Ja05820	NCP	%	90			70-130	Pass	
Lead	S14-Ja05802	NCP	%	88			70-130	Pass	
Mercury	S14-Ja05820	NCP	%	115			70-130	Pass	
Nickel	S14-Ja05820	NCP	%	88			70-130	Pass	
Zinc	S14-Ja04828	NCP	%	121			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S14-Ja05802	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S14-Ja06185	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S14-Ja06185	NCP	mg/kg	75	98	26	30%	Pass	
TRH C29-C36	S14-Ja06185	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S14-Ja05802	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S14-Ja05802	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S14-Ja05802	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S14-Ja06185	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S14-Ja06185	NCP	mg/kg	< 100	120	32	30%	Fail	Q15
TRH >C34-C40	S14-Ja06185	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S14-Ja06447	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S14-Ja06447	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S14-Ja06447	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S14-Ja06447	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S14-Ja06447	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S14-Ja06447	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S14-Ja06447	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S14-Ja06447	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S14-Ja06447	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S14-Ja06447	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S14-Ja06447	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S14-Ja06447	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja06447	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S14-Ja06447	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S14-Ja06447	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S14-Ja06447	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S14-Ja05820	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Cadmium	S14-Ja05820	NCP	mg/kg	0.40	< 0.4	37	30%	Fail	Q15
Chromium	S14-Ja05820	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	S14-Ja05820	NCP	mg/kg	97	89	10	30%	Pass	
Lead	S14-Ja05820	NCP	mg/kg	91	120	29	30%	Pass	
Mercury	S14-Ja05820	NCP	mg/kg	0.36	0.33	10	30%	Pass	
Nickel	S14-Ja03462	NCP	mg/kg	7.3	6.3	14	30%	Pass	
Zinc	S14-Ja05820	NCP	mg/kg	230	190	21	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q15	The RPD reported passes Eurofins | mgt's Acceptance Criteria as stipulated in SOP 05. Refer to Glossary Page of this report for further details

Authorised By

Jean Heng	Client Services
James Norford	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)
Ryan Hamilton	Senior Analyst-Volatile (NSW)

Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

Eurofins | mgt shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins | mgt be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

eurofins | mgt
Unit F3-F6 Building F, Parkview Building
16 Mars Road, Lane Cove West
NSW 2066

Page 1 of 1

#405751

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square Block 15A
SEND REPORT TO: N Cussen SEND INVOICE TO: G Ng
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: NC
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: ncussen@jbsg.com.au

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	JBS&G SPECIFIC SUITES: JB1	JB1T	JB1A	JB2	JB2A	B10	JB2/JBL	JB3/JBL	JB4	JBL	8 Metals	TRH	PAH	BTEX	PH	EC	NOTES:
EC096 5.5-5.7	Soil	13.1.14		Jar + Ice												X	X	X				
EC096 6.1-6.3	↓	↓		↓																		
EC096 7.3-7.5																						
EC052 6.5-6.7																X	X	X				
TS (trip spike)	Water	13.1.14		Vial + Ice												X	X	X				
SB (storage blank)	↓	↓		↓															X			
Rinsate				Vial/Bottles + Ice															X			
																X	X	X	X			

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Nathan DATE: 14.1.14	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE:	
		OF:	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO Forms013 - Chain of Custody - eurofins mgt

JB1 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1T - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos
JB2 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
B10 - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2/JBL - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)
JB3/JBL - TRH/BTEX/PAH/OCP/OPP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)/Asbestos
JB4 - TRH/BTEX/VOC
JBL - TCLP(PAH & 6 Metals)

RECEIVED
15 JAN 2014
BY: Sean Q 3:45

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ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

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Site # 1254 & 14271

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NATA # 1261 Site # 18217

Brisbane
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Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Sample Receipt Advice

Company name: **JBS & G (NSW & WA) Pty Ltd**

Contact name: Nathan Cussen
Client job number: GREEN SQUARE BLOCK 15A 43182
COC number: Not provided
Turn around time: 5 Day
Date/Time received: Jan 13, 2014 5:00 PM
Eurofins | mgt reference: **405416**

Sample information

☑ A detailed list of analytes logged into our LIMS, is included in the attached summary table.

☑ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt Sample Receipt : 7 degrees Celsius.

☑ All samples have been received as described on the above COC.

☑ COC has been completed correctly.

☑ Attempt to chill was evident.

☑ Appropriately preserved sample containers have been used.

☑ All samples were received in good condition.

☑ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.

☑ Organic samples had Teflon liners.

☒ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Notes

Sample ID discrepancy: COC = FC096 0.5-0.6, JAR = FC096 0.5-0.8 - labeled as per COC ID

Contact notes

If you have any questions with respect to these samples please contact:

Jean Heng on Phone : (+61) (2) 9900 8400 or by e.mail: JeanHeng@eurofins.com.au

Results will be delivered electronically via e.mail to Nathan Cussen - ncussen@jbsg.com.au.

Eurofins | mgt Sample Receipt

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ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

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NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: GREEN SQUARE BLOCK 15A 43182

Order No.:
Report #: 405416
Phone: 02 8245 0300
Fax:

Received: Jan 13, 2014 5:00 PM
Due: Jan 21, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Total Recoverable Hydrocarbons	Volatile Organics	JBS&G Suite 2
Laboratory where analysis is conducted												
Melbourne Laboratory - NATA Site # 1254 & 14271												
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794												
External Laboratory												
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**								
FC049 0.2-0.3	Jan 10, 2014		Soil	S14-Ja03461		X						
FC049 1.0-1.2	Jan 10, 2014		Soil	S14-Ja03462	X		X	X		X		
FC049 1.8-2.0	Jan 10, 2014		Soil	S14-Ja03463		X						
FC049 2.8-3.0	Jan 10, 2014		Soil	S14-Ja03464		X						
FC049 3.5-3.7	Jan 10, 2014		Soil	S14-Ja03465	X			X	X	X	X	
FC050 0.2-0.3	Jan 10, 2014		Soil	S14-Ja03466	X							X
FC050 1.5-1.7	Jan 10, 2014		Soil	S14-Ja03467		X						
FC050 2.8-3.0	Jan 10, 2014		Soil	S14-Ja03468	X		X	X		X		
FC050 4.5-4.7	Jan 10, 2014		Soil	S14-Ja03469		X						
FC051 0.1-0.2	Jan 10, 2014		Soil	S14-Ja03470		X						

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Contact Name: Nathan Cussen

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Sample Detail					% Moisture	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Total Recoverable Hydrocarbons	Volatile Organics	JBS&G Suite 2
Laboratory where analysis is conducted												
Melbourne Laboratory - NATA Site # 1254 & 14271												
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794												
External Laboratory												
FC051 0.2-0.4	Jan 10, 2014		Soil	S14-Ja03471		X						
FC051 1.2-1.4	Jan 10, 2014		Soil	S14-Ja03472	X		X	X		X		
FC051 2.8-3.0	Jan 10, 2014		Soil	S14-Ja03473		X						
FC051 3.6-3.8	Jan 10, 2014		Soil	S14-Ja03474	X		X	X		X		
FC051 4.1-4.3	Jan 10, 2014		Soil	S14-Ja03475		X						
FC052 0.2-0.3	Jan 10, 2014		Soil	S14-Ja03476		X						
FC052 0.8-1.0	Jan 10, 2014		Soil	S14-Ja03477		X						
FC052 1.8-2.0	Jan 10, 2014		Soil	S14-Ja03478		X						
FC052 2.8-3.0	Jan 10, 2014		Soil	S14-Ja03479	X							X
FC052 3.8-4.0	Jan 10, 2014		Soil	S14-Ja03480	X		X	X	X	X		
FC096 0.2-0.3	Jan 10, 2014		Soil	S14-Ja03481		X						

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Fax:

Received: Jan 13, 2014 5:00 PM
Due: Jan 21, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Total Recoverable Hydrocarbons	Volatile Organics	JBS&G Suite 2
Laboratory where analysis is conducted												
Melbourne Laboratory - NATA Site # 1254 & 14271												
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794												
External Laboratory												
FC096 0.5-0.6	Jan 10, 2014		Soil	S14-Ja03482	X							X
FC096 1.8-2.0	Jan 10, 2014		Soil	S14-Ja03483	X			X	X	X	X	
FC096 3.8-4.0	Jan 10, 2014		Soil	S14-Ja03484		X						
QC07	Jan 10, 2014		Soil	S14-Ja03485	X							X

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Certificate of Analysis

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Nathan Cussen**

Report **405416-S**
Client Reference GREEN SQUARE BLOCK 15A 43182
Received Date Jan 13, 2014

Client Sample ID **Sample Matrix** **Eurofins | mgt Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**FC049 1.0-1.2** **Soil** **S14-Ja03462** **Jan 10, 2014**	**FC049 3.5-3.7** **Soil** **S14-Ja03465** **Jan 10, 2014**	**FC050 0.2-0.3** **Soil** **S14-Ja03466** **Jan 10, 2014**	**FC050 2.8-3.0** **Soil** **S14-Ja03468** **Jan 10, 2014**
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	93	< 50	54	< 50
TRH C29-C36	50	mg/kg	81	< 50	< 50	< 50
TRH C10-36 (Total)	50	mg/kg	170	< 50	54	< 50
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	< 0.1	-
Toluene	0.1	mg/kg	-	< 0.1	< 0.1	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	< 0.1	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	< 0.2	-
o-Xylene	0.1	mg/kg	-	< 0.1	< 0.1	-
Xylenes - Total	0.3	mg/kg	-	< 0.3	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	-	121	118	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	150	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
Volatile Organics						
1.1-Dichloroethane	0.05	mg/kg	-	< 0.05	-	-
1.1-Dichloroethene	0.05	mg/kg	-	< 0.05	-	-
1.1.1-Trichloroethane	0.05	mg/kg	-	< 0.05	-	-
1.1.1.2-Tetrachloroethane	0.05	mg/kg	-	< 0.05	-	-
1.1.2-Trichloroethane	0.05	mg/kg	-	< 0.05	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dibromoethane	0.05	mg/kg	-	< 0.05	-	-
1.2-Dichlorobenzene	0.05	mg/kg	-	< 0.05	-	-
1.2-Dichloroethane	0.05	mg/kg	-	< 0.05	-	-
1.2-Dichloropropane	0.05	mg/kg	-	< 0.05	-	-
1.2.3-Trichloropropane	0.05	mg/kg	-	< 0.05	-	-
1.2.4-Trimethylbenzene	0.05	mg/kg	-	< 0.05	-	-
1.3-Dichlorobenzene	0.05	mg/kg	-	< 0.05	-	-
1.3-Dichloropropane	0.05	mg/kg	-	< 0.05	-	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC049 1.0-1.2 Soil S14-Ja03462 Jan 10, 2014	FC049 3.5-3.7 Soil S14-Ja03465 Jan 10, 2014	FC050 0.2-0.3 Soil S14-Ja03466 Jan 10, 2014	FC050 2.8-3.0 Soil S14-Ja03468 Jan 10, 2014
Volatile Organics						
1.3.5-Trimethylbenzene	0.05	mg/kg	-	< 0.05	-	-
1.4-Dichlorobenzene	0.05	mg/kg	-	< 0.05	-	-
2-Butanone (MEK)	0.05	mg/kg	-	< 0.05	-	-
4-Chlorotoluene	0.05	mg/kg	-	< 0.05	-	-
4-Methyl-2-pentanone (MIBK)	0.05	mg/kg	-	< 0.05	-	-
Benzene	0.1	mg/kg	-	< 0.1	-	-
Bromobenzene	0.05	mg/kg	-	< 0.05	-	-
Bromochloromethane	0.05	mg/kg	-	< 0.05	-	-
Bromodichloromethane	0.05	mg/kg	-	< 0.05	-	-
Bromoform	0.05	mg/kg	-	< 0.05	-	-
Bromomethane	0.05	mg/kg	-	< 0.05	-	-
Carbon disulfide	0.05	mg/kg	-	< 0.05	-	-
Carbon Tetrachloride	0.05	mg/kg	-	< 0.05	-	-
Chlorobenzene	0.05	mg/kg	-	< 0.05	-	-
Chloroethane	0.05	mg/kg	-	< 0.05	-	-
Chloroform	0.05	mg/kg	-	< 0.05	-	-
Chloromethane	0.05	mg/kg	-	< 0.05	-	-
cis-1.2-Dichloroethene	0.05	mg/kg	-	< 0.05	-	-
cis-1.3-Dichloropropene	0.05	mg/kg	-	< 0.05	-	-
Dibromochloromethane	0.05	mg/kg	-	< 0.05	-	-
Dibromomethane	0.5	mg/kg	-	< 0.5	-	-
Dichlorodifluoromethane	0.05	mg/kg	-	< 0.05	-	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	-
Iodomethane	0.05	mg/kg	-	< 0.05	-	-
Isopropyl benzene (Cumene)	0.05	mg/kg	-	< 0.05	-	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	-
Methylene Chloride	0.05	mg/kg	-	< 0.05	-	-
o-Xylene	0.1	mg/kg	-	< 0.1	-	-
Styrene	0.05	mg/kg	-	< 0.05	-	-
Tetrachloroethene	0.05	mg/kg	-	< 0.05	-	-
Toluene	0.1	mg/kg	-	< 0.1	-	-
trans-1.2-Dichloroethene	0.05	mg/kg	-	< 0.05	-	-
trans-1.3-Dichloropropene	0.05	mg/kg	-	< 0.05	-	-
Trichloroethene	0.05	mg/kg	-	< 0.05	-	-
Trichlorofluoromethane	0.05	mg/kg	-	< 0.05	-	-
Vinyl chloride	0.05	mg/kg	-	< 0.05	-	-
Xylenes - Total	0.3	mg/kg	-	< 0.3	-	-
Fluorobenzene (surr.)	1	%	-	96	-	-
4-Bromofluorobenzene (surr.)	1	%	-	121	-	-
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	0.5	-	< 0.5	< 0.5
Anthracene	0.5	mg/kg	1.0	-	0.7	< 0.5
Benz(a)anthracene	0.5	mg/kg	3.0	-	2.1	0.6
Benzo(a)pyrene	0.5	mg/kg	3.3	-	2.0	0.9
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	2.7	-	1.8	0.7
Benzo(g.h.i)perylene	0.5	mg/kg	2.0	-	1.0	0.6
Benzo(k)fluoranthene	0.5	mg/kg	1.7	-	0.9	< 0.5
Chrysene	0.5	mg/kg	2.7	-	1.7	0.5

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC049 1.0-1.2 Soil S14-Ja03462 Jan 10, 2014	FC049 3.5-3.7 Soil S14-Ja03465 Jan 10, 2014	FC050 0.2-0.3 Soil S14-Ja03466 Jan 10, 2014	FC050 2.8-3.0 Soil S14-Ja03468 Jan 10, 2014
Polycyclic Aromatic Hydrocarbons						
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	5.7	-	4.5	0.8
Fluorene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	1.6	-	0.8	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	2.9	-	2.2	< 0.5
Pyrene	0.5	mg/kg	5.6	-	4.2	0.8
Total PAH	0.5	mg/kg	33	-	22	4.9
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	4.2	-	2.6	1.0
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	4.5	-	2.8	1.3
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	4.7	-	3.1	1.6
2-Fluorobiphenyl (surr.)	1	%	96	-	85	85
p-Terphenyl-d14 (surr.)	1	%	114	-	101	101
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	< 0.1	-
4.4'-DDD	0.05	mg/kg	-	-	< 0.05	-
4.4'-DDE	0.05	mg/kg	-	-	< 0.05	-
4.4'-DDT	0.05	mg/kg	-	-	< 0.05	-
a-BHC	0.05	mg/kg	-	-	< 0.05	-
Aldrin	0.05	mg/kg	-	-	< 0.05	-
b-BHC	0.05	mg/kg	-	-	< 0.05	-
d-BHC	0.05	mg/kg	-	-	< 0.05	-
Dieldrin	0.05	mg/kg	-	-	< 0.05	-
Endosulfan I	0.05	mg/kg	-	-	< 0.05	-
Endosulfan II	0.05	mg/kg	-	-	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	-	-	< 0.05	-
Endrin	0.05	mg/kg	-	-	< 0.05	-
Endrin aldehyde	0.05	mg/kg	-	-	< 0.05	-
Endrin ketone	0.05	mg/kg	-	-	< 0.05	-
g-BHC (Lindane)	0.05	mg/kg	-	-	< 0.05	-
Heptachlor	0.05	mg/kg	-	-	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	-	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	-	-	< 0.05	-
Methoxychlor	0.2	mg/kg	-	-	< 0.2	-
Toxaphene	1	mg/kg	-	-	< 1	-
Dibutylchlorendate (surr.)	1	%	-	-	114	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	87	-
Polychlorinated Biphenyls (PCB)						
Aroclor-1016	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1232	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1242	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1248	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1254	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1260	0.5	mg/kg	-	-	< 0.5	-
Total PCB	0.5	mg/kg	-	-	< 0.5	-
Dibutylchlorendate (surr.)	1	%	-	-	114	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC049 1.0-1.2 Soil S14-Ja03462 Jan 10, 2014	FC049 3.5-3.7 Soil S14-Ja03465 Jan 10, 2014	FC050 0.2-0.3 Soil S14-Ja03466 Jan 10, 2014	FC050 2.8-3.0 Soil S14-Ja03468 Jan 10, 2014
Heavy Metals						
Arsenic	2	mg/kg	5.0	2.6	2.8	5.7
Cadmium	0.4	mg/kg	1.0	1.2	1.6	0.4
Chromium	5	mg/kg	8.2	7.1	16	8.0
Copper	5	mg/kg	110	68	17	91
Lead	5	mg/kg	330	190	41	290
Mercury	0.05	mg/kg	2.0	0.82	0.10	0.08
Nickel	5	mg/kg	7.3	5.9	7.2	7.1
Zinc	5	mg/kg	440	120	730	250
% Moisture	0.1	%	14	14	20	13

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC051 1.2-1.4 Soil S14-Ja03472 Jan 10, 2014	FC051 3.6-3.8 Soil S14-Ja03474 Jan 10, 2014	FC052 2.8-3.0 Soil S14-Ja03479 Jan 10, 2014	FC052 3.8-4.0 Soil S14-Ja03480 Jan 10, 2014
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	100	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-36 (Total)	50	mg/kg	100	< 50	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	-	-	< 0.1	< 0.1
Toluene	0.1	mg/kg	-	-	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	-	-	< 0.1	< 0.1
Xylenes - Total	0.3	mg/kg	-	-	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	-	118	106
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	140	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	0.6	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	1.3	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	3.7	1.4	0.7	< 0.5
Benzo(a)pyrene	0.5	mg/kg	3.8	1.5	0.8	0.7
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	3.3	1.5	0.8	0.7
Benzo(g.h.i)perylene	0.5	mg/kg	2.1	0.9	0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	1.9	0.6	< 0.5	< 0.5
Chrysene	0.5	mg/kg	3.1	1.2	0.6	< 0.5

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC051 1.2-1.4 Soil S14-Ja03472 Jan 10, 2014	FC051 3.6-3.8 Soil S14-Ja03474 Jan 10, 2014	FC052 2.8-3.0 Soil S14-Ja03479 Jan 10, 2014	FC052 3.8-4.0 Soil S14-Ja03480 Jan 10, 2014
Polycyclic Aromatic Hydrocarbons						
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	7.2	2.5	1.0	0.7
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	1.6	0.7	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	3.7	0.9	< 0.5	< 0.5
Pyrene	0.5	mg/kg	7.0	2.5	1.0	0.7
Total PAH	0.5	mg/kg	39	14	5.4	2.8
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	4.9	2.0	1.0	0.7
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	5.1	2.2	1.3	1.1
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	5.4	2.5	1.6	1.4
2-Fluorobiphenyl (surr.)	1	%	86	86	87	85
p-Terphenyl-d14 (surr.)	1	%	103	103	104	101
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	< 0.1	-
4.4'-DDD	0.05	mg/kg	-	-	< 0.05	-
4.4'-DDE	0.05	mg/kg	-	-	< 0.05	-
4.4'-DDT	0.05	mg/kg	-	-	< 0.05	-
a-BHC	0.05	mg/kg	-	-	< 0.05	-
Aldrin	0.05	mg/kg	-	-	< 0.05	-
b-BHC	0.05	mg/kg	-	-	< 0.05	-
d-BHC	0.05	mg/kg	-	-	< 0.05	-
Dieldrin	0.05	mg/kg	-	-	< 0.05	-
Endosulfan I	0.05	mg/kg	-	-	< 0.05	-
Endosulfan II	0.05	mg/kg	-	-	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	-	-	< 0.05	-
Endrin	0.05	mg/kg	-	-	< 0.05	-
Endrin aldehyde	0.05	mg/kg	-	-	< 0.05	-
Endrin ketone	0.05	mg/kg	-	-	< 0.05	-
g-BHC (Lindane)	0.05	mg/kg	-	-	< 0.05	-
Heptachlor	0.05	mg/kg	-	-	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	-	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	-	-	< 0.05	-
Methoxychlor	0.2	mg/kg	-	-	< 0.2	-
Toxaphene	1	mg/kg	-	-	< 1	-
Dibutylchlorendate (surr.)	1	%	-	-	115	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	79	-
Polychlorinated Biphenyls (PCB)						
Aroclor-1016	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1232	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1242	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1248	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1254	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1260	0.5	mg/kg	-	-	< 0.5	-
Total PCB	0.5	mg/kg	-	-	< 0.5	-
Dibutylchlorendate (surr.)	1	%	-	-	115	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC051 1.2-1.4 Soil S14-Ja03472 Jan 10, 2014	FC051 3.6-3.8 Soil S14-Ja03474 Jan 10, 2014	FC052 2.8-3.0 Soil S14-Ja03479 Jan 10, 2014	FC052 3.8-4.0 Soil S14-Ja03480 Jan 10, 2014
Heavy Metals						
Arsenic	2	mg/kg	3.1	< 2	11	2.7
Cadmium	0.4	mg/kg	0.5	< 0.4	1.3	< 0.4
Chromium	5	mg/kg	5.6	< 5	12	5.2
Copper	5	mg/kg	23	18	150	20
Lead	5	mg/kg	860	79	710	360
Mercury	0.05	mg/kg	0.17	0.26	0.40	0.25
Nickel	5	mg/kg	< 5	< 5	18	< 5
Zinc	5	mg/kg	190	90	700	230
% Moisture	0.1	%	6.6	6.2	12	10

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC096 0.5-0.6 Soil S14-Ja03482 Jan 10, 2014	FC096 1.8-2.0 Soil S14-Ja03483 Jan 10, 2014	QC07 Soil S14-Ja03485 Jan 10, 2014
Total Recoverable Hydrocarbons - 1999 NEPM Fractions					
TRH C6-C9	20	mg/kg	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	760	58	58
TRH C29-C36	50	mg/kg	310	< 50	62
TRH C10-36 (Total)	50	mg/kg	1100	58	120
BTEX					
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Xylenes - Total	0.3	mg/kg	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	110	125	112
Total Recoverable Hydrocarbons - 2013 NEPM Fractions					
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	1000	< 100	120
TRH >C34-C40	100	mg/kg	170	< 100	< 100
Volatile Organics					
1.1-Dichloroethane	0.05	mg/kg	-	< 0.05	-
1.1-Dichloroethene	0.05	mg/kg	-	< 0.05	-
1.1.1-Trichloroethane	0.05	mg/kg	-	< 0.05	-
1.1.1.2-Tetrachloroethane	0.05	mg/kg	-	< 0.05	-
1.1.2-Trichloroethane	0.05	mg/kg	-	< 0.05	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-
1.2-Dibromoethane	0.05	mg/kg	-	< 0.05	-
1.2-Dichlorobenzene	0.05	mg/kg	-	< 0.05	-
1.2-Dichloroethane	0.05	mg/kg	-	< 0.05	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC096 0.5-0.6 Soil S14-Ja03482 Jan 10, 2014	FC096 1.8-2.0 Soil S14-Ja03483 Jan 10, 2014	QC07 Soil S14-Ja03485 Jan 10, 2014
Volatile Organics					
1.2-Dichloropropane	0.05	mg/kg	-	< 0.05	-
1.2.3-Trichloropropane	0.05	mg/kg	-	< 0.05	-
1.2.4-Trimethylbenzene	0.05	mg/kg	-	< 0.05	-
1.3-Dichlorobenzene	0.05	mg/kg	-	< 0.05	-
1.3-Dichloropropane	0.05	mg/kg	-	< 0.05	-
1.3.5-Trimethylbenzene	0.05	mg/kg	-	< 0.05	-
1.4-Dichlorobenzene	0.05	mg/kg	-	< 0.05	-
2-Butanone (MEK)	0.05	mg/kg	-	< 0.05	-
4-Chlorotoluene	0.05	mg/kg	-	< 0.05	-
4-Methyl-2-pentanone (MIBK)	0.05	mg/kg	-	< 0.05	-
Benzene	0.1	mg/kg	-	< 0.1	-
Bromobenzene	0.05	mg/kg	-	< 0.05	-
Bromochloromethane	0.05	mg/kg	-	< 0.05	-
Bromodichloromethane	0.05	mg/kg	-	< 0.05	-
Bromoform	0.05	mg/kg	-	< 0.05	-
Bromomethane	0.05	mg/kg	-	< 0.05	-
Carbon disulfide	0.05	mg/kg	-	< 0.05	-
Carbon Tetrachloride	0.05	mg/kg	-	< 0.05	-
Chlorobenzene	0.05	mg/kg	-	< 0.05	-
Chloroethane	0.05	mg/kg	-	< 0.05	-
Chloroform	0.05	mg/kg	-	< 0.05	-
Chloromethane	0.05	mg/kg	-	< 0.05	-
cis-1.2-Dichloroethene	0.05	mg/kg	-	< 0.05	-
cis-1.3-Dichloropropene	0.05	mg/kg	-	< 0.05	-
Dibromochloromethane	0.05	mg/kg	-	< 0.05	-
Dibromomethane	0.5	mg/kg	-	< 0.5	-
Dichlorodifluoromethane	0.05	mg/kg	-	< 0.05	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	-
Iodomethane	0.05	mg/kg	-	< 0.05	-
Isopropyl benzene (Cumene)	0.05	mg/kg	-	< 0.05	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-
Methylene Chloride	0.05	mg/kg	-	< 0.05	-
o-Xylene	0.1	mg/kg	-	< 0.1	-
Styrene	0.05	mg/kg	-	< 0.05	-
Tetrachloroethene	0.05	mg/kg	-	< 0.05	-
Toluene	0.1	mg/kg	-	< 0.1	-
trans-1.2-Dichloroethene	0.05	mg/kg	-	< 0.05	-
trans-1.3-Dichloropropene	0.05	mg/kg	-	< 0.05	-
Trichloroethene	0.05	mg/kg	-	< 0.05	-
Trichlorofluoromethane	0.05	mg/kg	-	< 0.05	-
Vinyl chloride	0.05	mg/kg	-	< 0.05	-
Xylenes - Total	0.3	mg/kg	-	< 0.3	-
Fluorobenzene (surr.)	1	%	-	96	-
4-Bromofluorobenzene (surr.)	1	%	-	125	-
Polycyclic Aromatic Hydrocarbons					
Acenaphthene	0.5	mg/kg	1.2	-	< 0.5
Acenaphthylene	0.5	mg/kg	4.6	-	< 0.5
Anthracene	0.5	mg/kg	12	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	20	-	1.9

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC096 0.5-0.6 Soil S14-Ja03482 Jan 10, 2014	FC096 1.8-2.0 Soil S14-Ja03483 Jan 10, 2014	QC07 Soil S14-Ja03485 Jan 10, 2014
Polycyclic Aromatic Hydrocarbons					
Benzo(a)pyrene	0.5	mg/kg	16	-	2.2
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	16	-	2.4
Benzo(g.h.i)perylene	0.5	mg/kg	7.6	-	1.3
Benzo(k)fluoranthene	0.5	mg/kg	8.2	-	1.1
Chrysene	0.5	mg/kg	15	-	1.6
Dibenz(a.h)anthracene	0.5	mg/kg	2.0	-	< 0.5
Fluoranthene	0.5	mg/kg	36	-	2.9
Fluorene	0.5	mg/kg	2.8	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	6.3	-	1.1
Naphthalene	0.5	mg/kg	1.1	-	< 0.5
Phenanthrene	0.5	mg/kg	32	-	1.0
Pyrene	0.5	mg/kg	34	-	3.0
Total PAH	0.5	mg/kg	210	-	19
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	23	-	2.9
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	23	-	3.2
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	23	-	3.4
2-Fluorobiphenyl (surr.)	1	%	87	-	85
p-Terphenyl-d14 (surr.)	1	%	109	-	103
Organochlorine Pesticides					
Chlordanes - Total	0.1	mg/kg	< 0.1	-	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	-	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	-	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	-	< 0.05
a-BHC	0.05	mg/kg	< 0.05	-	< 0.05
Aldrin	0.05	mg/kg	< 0.05	-	< 0.05
b-BHC	0.05	mg/kg	< 0.05	-	< 0.05
d-BHC	0.05	mg/kg	< 0.05	-	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	-	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	-	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	< 0.05
Endrin	0.05	mg/kg	< 0.05	-	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	-	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	< 0.05
Methoxychlor	0.2	mg/kg	< 0.2	-	< 0.2
Toxaphene	1	mg/kg	< 1	-	< 1
Dibutylchlorendate (surr.)	1	%	118	-	109
Tetrachloro-m-xylene (surr.)	1	%	73	-	75
Polychlorinated Biphenyls (PCB)					
Aroclor-1016	0.5	mg/kg	< 0.5	-	< 0.5
Aroclor-1232	0.5	mg/kg	< 0.5	-	< 0.5
Aroclor-1242	0.5	mg/kg	< 0.5	-	< 0.5
Aroclor-1248	0.5	mg/kg	< 0.5	-	< 0.5
Aroclor-1254	0.5	mg/kg	< 0.5	-	< 0.5
Aroclor-1260	0.5	mg/kg	< 0.5	-	< 0.5

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC096 0.5-0.6 Soil S14-Ja03482 Jan 10, 2014	FC096 1.8-2.0 Soil S14-Ja03483 Jan 10, 2014	QC07 Soil S14-Ja03485 Jan 10, 2014
Polychlorinated Biphenyls (PCB)					
Total PCB	0.5	mg/kg	< 0.5	-	< 0.5
Dibutylchlorendate (surr.)	1	%	118	-	109
Heavy Metals					
Arsenic	2	mg/kg	4.9	9.7	5.8
Cadmium	0.4	mg/kg	1.3	1.2	1.3
Chromium	5	mg/kg	17	31	15
Copper	5	mg/kg	160	91	200
Lead	5	mg/kg	4100	740	3000
Mercury	0.05	mg/kg	4.6	2.7	3.4
Nickel	5	mg/kg	9.0	11	12
Zinc	5	mg/kg	730	760	750
% Moisture	0.1	%	6.6	13	18

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Jan 16, 2014	14 Day
- Method: E004 Petroleum Hydrocarbons (TPH)			
BTEX	Sydney	Jan 16, 2014	14 Day
- Method: E029/E016 BTEX			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jan 16, 2014	14 Day
- Method: LM-LTM-ORG2010			
Polycyclic Aromatic Hydrocarbons	Sydney	Jan 15, 2014	14 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Organochlorine Pesticides	Sydney	Jan 15, 2014	14 Day
- Method: E013 Organochlorine Pesticides (OC)			
Polychlorinated Biphenyls (PCB)	Sydney	Jan 15, 2014	28 Day
- Method: E013 Polychlorinated Biphenyls (PCB)			
Metals M8	Sydney	Jan 15, 2014	28 Day
- Method: E022 Acid Extractable metals in Soils & E026 Mercury			
Volatile Organics	Sydney	Jan 15, 2014	7 Day
- Method: E016 Volatile Organic Compounds (VOC)			
% Moisture	Sydney	Jan 15, 2014	28 Day
- Method: E005 Moisture Content			

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NATA # 1261 Site # 18217

Brisbane
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Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: GREEN SQUARE BLOCK 15A 43182

Order No.:
Report #: 405416
Phone: 02 8245 0300
Fax:

Received: Jan 13, 2014 5:00 PM
Due: Jan 21, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Total Recoverable Hydrocarbons	Volatile Organics	JBS&G Suite 2
Laboratory where analysis is conducted												
Melbourne Laboratory - NATA Site # 1254 & 14271												
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794												
External Laboratory												
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**								
FC049 0.2-0.3	Jan 10, 2014		Soil	S14-Ja03461		X						
FC049 1.0-1.2	Jan 10, 2014		Soil	S14-Ja03462	X		X	X		X		
FC049 1.8-2.0	Jan 10, 2014		Soil	S14-Ja03463		X						
FC049 2.8-3.0	Jan 10, 2014		Soil	S14-Ja03464		X						
FC049 3.5-3.7	Jan 10, 2014		Soil	S14-Ja03465	X			X	X	X	X	
FC050 0.2-0.3	Jan 10, 2014		Soil	S14-Ja03466	X							X
FC050 1.5-1.7	Jan 10, 2014		Soil	S14-Ja03467		X						
FC050 2.8-3.0	Jan 10, 2014		Soil	S14-Ja03468	X		X	X		X		
FC050 4.5-4.7	Jan 10, 2014		Soil	S14-Ja03469		X						
FC051 0.1-0.2	Jan 10, 2014		Soil	S14-Ja03470		X						

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Laboratory where analysis is conducted												
Melbourne Laboratory - NATA Site # 1254 & 14271												
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794												
External Laboratory												
FC051 0.2-0.4	Jan 10, 2014		Soil	S14-Ja03471		X						
FC051 1.2-1.4	Jan 10, 2014		Soil	S14-Ja03472	X		X	X		X		
FC051 2.8-3.0	Jan 10, 2014		Soil	S14-Ja03473		X						
FC051 3.6-3.8	Jan 10, 2014		Soil	S14-Ja03474	X		X	X		X		
FC051 4.1-4.3	Jan 10, 2014		Soil	S14-Ja03475		X						
FC052 0.2-0.3	Jan 10, 2014		Soil	S14-Ja03476		X						
FC052 0.8-1.0	Jan 10, 2014		Soil	S14-Ja03477		X						
FC052 1.8-2.0	Jan 10, 2014		Soil	S14-Ja03478		X						
FC052 2.8-3.0	Jan 10, 2014		Soil	S14-Ja03479	X							X
FC052 3.8-4.0	Jan 10, 2014		Soil	S14-Ja03480	X		X	X	X	X		
FC096 0.2-0.3	Jan 10, 2014		Soil	S14-Ja03481		X						

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Sample Detail					% Moisture	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Total Recoverable Hydrocarbons	Volatile Organics	JBS&G Suite 2
Laboratory where analysis is conducted												
Melbourne Laboratory - NATA Site # 1254 & 14271												
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794												
External Laboratory												
FC096 0.5-0.6	Jan 10, 2014		Soil	S14-Ja03482	X							X
FC096 1.8-2.0	Jan 10, 2014		Soil	S14-Ja03483	X			X	X	X	X	
FC096 3.8-4.0	Jan 10, 2014		Soil	S14-Ja03484		X						
QC07	Jan 10, 2014		Soil	S14-Ja03485	X							X

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH C6-C10 less BTEX (F1)	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/kg	< 0.05			0.05	Pass	
1.1-Dichloroethene	mg/kg	< 0.05			0.05	Pass	
1.1.1-Trichloroethane	mg/kg	< 0.05			0.05	Pass	
1.1.1.2-Tetrachloroethane	mg/kg	< 0.05			0.05	Pass	
1.1.2-Trichloroethane	mg/kg	< 0.05			0.05	Pass	
1.1.2.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dibromoethane	mg/kg	< 0.05			0.05	Pass	
1.2-Dichlorobenzene	mg/kg	< 0.05			0.05	Pass	
1.2-Dichloroethane	mg/kg	< 0.05			0.05	Pass	
1.2-Dichloropropane	mg/kg	< 0.05			0.05	Pass	
1.2.3-Trichloropropane	mg/kg	< 0.05			0.05	Pass	
1.2.4-Trimethylbenzene	mg/kg	< 0.05			0.05	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.05			0.05	Pass	
1.3-Dichloropropane	mg/kg	< 0.05			0.05	Pass	
1.3.5-Trimethylbenzene	mg/kg	< 0.05			0.05	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.05			0.05	Pass	
2-Butanone (MEK)	mg/kg	< 0.05			0.05	Pass	
4-Chlorotoluene	mg/kg	< 0.05			0.05	Pass	
4-Methyl-2-pentanone (MIBK)	mg/kg	< 0.05			0.05	Pass	
Bromobenzene	mg/kg	< 0.05			0.05	Pass	
Bromochloromethane	mg/kg	< 0.05			0.05	Pass	
Bromodichloromethane	mg/kg	< 0.05			0.05	Pass	
Bromoform	mg/kg	< 0.05			0.05	Pass	
Bromomethane	mg/kg	< 0.05			0.05	Pass	
Carbon disulfide	mg/kg	< 0.05			0.05	Pass	
Carbon Tetrachloride	mg/kg	< 0.05			0.05	Pass	
Chlorobenzene	mg/kg	< 0.05			0.05	Pass	
Chloroethane	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Chloroform	mg/kg	< 0.05			0.05	Pass	
Chloromethane	mg/kg	< 0.05			0.05	Pass	
cis-1.2-Dichloroethene	mg/kg	< 0.05			0.05	Pass	
cis-1.3-Dichloropropene	mg/kg	< 0.05			0.05	Pass	
Dibromochloromethane	mg/kg	< 0.05			0.05	Pass	
Dibromomethane	mg/kg	< 0.5			0.5	Pass	
Dichlorodifluoromethane	mg/kg	< 0.05			0.05	Pass	
Iodomethane	mg/kg	< 0.05			0.05	Pass	
Isopropyl benzene (Cumene)	mg/kg	< 0.05			0.05	Pass	
Methylene Chloride	mg/kg	< 0.05			0.05	Pass	
Styrene	mg/kg	< 0.05			0.05	Pass	
Tetrachloroethene	mg/kg	< 0.05			0.05	Pass	
trans-1.2-Dichloroethene	mg/kg	< 0.05			0.05	Pass	
trans-1.3-Dichloropropene	mg/kg	< 0.05			0.05	Pass	
Trichloroethene	mg/kg	< 0.05			0.05	Pass	
Trichlorofluoromethane	mg/kg	< 0.05			0.05	Pass	
Vinyl chloride	mg/kg	< 0.05			0.05	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-BHC	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-BHC	mg/kg	< 0.05			0.05	Pass	
d-BHC	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-BHC (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.2			0.2	Pass	
Toxaphene	mg/kg	< 1			1	Pass	
Method Blank							
Polychlorinated Biphenyls (PCB)							
Aroclor-1016	mg/kg	< 0.5			0.5	Pass	
Aroclor-1232	mg/kg	< 0.5			0.5	Pass	
Aroclor-1242	mg/kg	< 0.5			0.5	Pass	
Aroclor-1248	mg/kg	< 0.5			0.5	Pass	
Aroclor-1254	mg/kg	< 0.5			0.5	Pass	
Aroclor-1260	mg/kg	< 0.5			0.5	Pass	
Total PCB	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.05			0.05	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	82			70-130	Pass	
TRH C10-C14	%	75			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	89			70-130	Pass	
Toluene	%	84			70-130	Pass	
Ethylbenzene	%	84			70-130	Pass	
m&p-Xylenes	%	84			70-130	Pass	
o-Xylene	%	95			70-130	Pass	
Xylenes - Total	%	88			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	107			70-130	Pass	
TRH C6-C10	%	83			70-130	Pass	
TRH >C10-C16	%	77			70-130	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethane	%	96			75-125	Pass	
1.1-Dichloroethene	%	99			70-130	Pass	
1.1.1-Trichloroethane	%	96			70-130	Pass	
1.1.1.2-Tetrachloroethane	%	99			70-130	Pass	
1.1.2-Trichloroethane	%	108			70-130	Pass	
1.1.2.2-Tetrachloroethane	%	120			70-130	Pass	
1.2-Dibromoethane	%	111			70-130	Pass	
1.2-Dichlorobenzene	%	105			70-130	Pass	
1.2-Dichloroethane	%	104			70-130	Pass	
1.2-Dichloropropane	%	101			70-130	Pass	
1.2.3-Trichloropropane	%	119			70-130	Pass	
1.2.4-Trimethylbenzene	%	104			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
1.3-Dichlorobenzene	%	106			70-130	Pass	
1.3-Dichloropropane	%	110			70-130	Pass	
1.3.5-Trimethylbenzene	%	106			70-130	Pass	
1.4-Dichlorobenzene	%	107			70-130	Pass	
2-Butanone (MEK)	%	112			70-130	Pass	
4-Chlorotoluene	%	107			70-130	Pass	
4-Methyl-2-pentanone (MIBK)	%	115			70-130	Pass	
Bromobenzene	%	111			70-130	Pass	
Bromochloromethane	%	99			70-130	Pass	
Bromodichloromethane	%	99			70-130	Pass	
Bromoform	%	104			70-130	Pass	
Bromomethane	%	98			70-130	Pass	
Carbon disulfide	%	116			70-130	Pass	
Carbon Tetrachloride	%	95			70-130	Pass	
Chlorobenzene	%	102			70-130	Pass	
Chloroethane	%	97			70-130	Pass	
Chloroform	%	98			70-130	Pass	
Chloromethane	%	89			70-130	Pass	
cis-1.2-Dichloroethene	%	99			70-130	Pass	
cis-1.3-Dichloropropene	%	100			70-130	Pass	
Dibromochloromethane	%	104			70-130	Pass	
Dibromomethane	%	86			70-130	Pass	
Iodomethane	%	92			75-125	Pass	
Isopropyl benzene (Cumene)	%	102			70-130	Pass	
Methylene Chloride	%	101			70-130	Pass	
Styrene	%	105			70-130	Pass	
Tetrachloroethene	%	105			70-130	Pass	
trans-1.2-Dichloroethene	%	98			70-130	Pass	
trans-1.3-Dichloropropene	%	100			70-130	Pass	
Trichloroethene	%	100			70-130	Pass	
Trichlorofluoromethane	%	91			70-130	Pass	
Vinyl chloride	%	87			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	108			70-130	Pass	
Acenaphthylene	%	106			70-130	Pass	
Anthracene	%	82			70-130	Pass	
Benz(a)anthracene	%	106			70-130	Pass	
Benzo(a)pyrene	%	90			70-130	Pass	
Benzo(b&j)fluoranthene	%	107			70-130	Pass	
Benzo(g.h.i)perylene	%	110			70-130	Pass	
Benzo(k)fluoranthene	%	115			70-130	Pass	
Chrysene	%	111			70-130	Pass	
Dibenz(a.h)anthracene	%	112			70-130	Pass	
Fluoranthene	%	109			70-130	Pass	
Fluorene	%	110			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	111			70-130	Pass	
Naphthalene	%	112			70-130	Pass	
Phenanthrene	%	106			70-130	Pass	
Pyrene	%	105			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	96			70-130	Pass	
4.4'-DDD	%	102			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
4.4'-DDE	%	100			70-130	Pass	
4.4'-DDT	%	87			70-130	Pass	
a-BHC	%	100			70-130	Pass	
Aldrin	%	102			70-130	Pass	
b-BHC	%	108			70-130	Pass	
d-BHC	%	104			70-130	Pass	
Dieldrin	%	97			70-130	Pass	
Endosulfan I	%	98			70-130	Pass	
Endosulfan II	%	96			70-130	Pass	
Endosulfan sulphate	%	98			70-130	Pass	
Endrin	%	90			70-130	Pass	
Endrin aldehyde	%	93			70-130	Pass	
Endrin ketone	%	88			70-130	Pass	
g-BHC (Lindane)	%	98			70-130	Pass	
Heptachlor	%	86			70-130	Pass	
Heptachlor epoxide	%	95			70-130	Pass	
Hexachlorobenzene	%	86			70-130	Pass	
Methoxychlor	%	84			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls (PCB)							
Aroclor-1260	%	93			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	97			70-130	Pass	
Cadmium	%	106			70-130	Pass	
Chromium	%	107			70-130	Pass	
Copper	%	108			70-130	Pass	
Lead	%	104			70-130	Pass	
Mercury	%	113			70-130	Pass	
Nickel	%	86			70-130	Pass	
Zinc	%	101			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S14-Ja03462	CP	%	78			70-130	Pass	
TRH C10-C14	S14-Ja03462	CP	%	96			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S14-Ja03462	CP	%	95			70-130	Pass	
Toluene	S14-Ja03462	CP	%	88			70-130	Pass	
Ethylbenzene	S14-Ja03462	CP	%	87			70-130	Pass	
m&p-Xylenes	S14-Ja03462	CP	%	88			70-130	Pass	
o-Xylene	S14-Ja03462	CP	%	99			70-130	Pass	
Xylenes - Total	S14-Ja03462	CP	%	92			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S14-Ja03462	CP	%	93			70-130	Pass	
TRH C6-C10	S14-Ja03462	CP	%	85			70-130	Pass	
TRH >C10-C16	S14-Ja03462	CP	%	98			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S14-Ja03462	CP	%	121			70-130	Pass	
Acenaphthylene	S14-Ja03462	CP	%	117			70-130	Pass	
Anthracene	S14-Ja03462	CP	%	112			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Benz(a)anthracene	S14-Ja03462	CP	%	89			70-130	Pass	
Benzo(a)pyrene	S14-Ja03462	CP	%	84			70-130	Pass	
Benzo(b&j)fluoranthene	S14-Ja03462	CP	%	93			70-130	Pass	
Benzo(g.h.i)perylene	S14-Ja03462	CP	%	82			70-130	Pass	
Benzo(k)fluoranthene	S14-Ja03462	CP	%	108			70-130	Pass	
Chrysene	S14-Ja03462	CP	%	83			70-130	Pass	
Dibenz(a.h)anthracene	S14-Ja03462	CP	%	114			70-130	Pass	
Fluoranthene	S14-Ja03462	CP	%	38			70-130	Fail	Q08
Fluorene	S14-Ja03462	CP	%	119			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja03462	CP	%	92			70-130	Pass	
Naphthalene	S14-Ja03462	CP	%	119			70-130	Pass	
Phenanthrene	S14-Ja03462	CP	%	75			70-130	Pass	
Pyrene	S14-Ja03462	CP	%	36			70-130	Fail	Q08
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S14-Ja03462	CP	%	94			70-130	Pass	
Cadmium	S14-Ja03462	CP	%	104			70-130	Pass	
Chromium	S14-Ja03462	CP	%	92			70-130	Pass	
Copper	S14-Ja03551	NCP	%	111			70-130	Pass	
Lead	S14-Ja03765	NCP	%	119			70-130	Pass	
Mercury	S14-Ja04702	NCP	%	117			70-130	Pass	
Nickel	S14-Ja03462	CP	%	103			70-130	Pass	
Zinc	S14-Ja03551	NCP	%	104			70-130	Pass	
Spike - % Recovery									
Volatile Organics				Result 1					
1.1-Dichloroethane	S14-Ja03494	NCP	%	90			75-125	Pass	
1.1-Dichloroethene	S14-Ja03494	NCP	%	95			70-130	Pass	
1.1.1-Trichloroethane	S14-Ja03494	NCP	%	89			70-130	Pass	
1.1.1.2-Tetrachloroethane	S14-Ja03494	NCP	%	97			70-130	Pass	
1.1.2-Trichloroethane	S14-Ja03494	NCP	%	102			70-130	Pass	
1.1.2.2-Tetrachloroethane	S14-Ja03494	NCP	%	118			70-130	Pass	
1.2-Dibromoethane	S14-Ja03494	NCP	%	105			70-130	Pass	
1.2-Dichlorobenzene	S14-Ja03494	NCP	%	97			70-130	Pass	
1.2-Dichloroethane	S14-Ja03494	NCP	%	95			70-130	Pass	
1.2-Dichloropropane	S14-Ja03494	NCP	%	96			70-130	Pass	
1.2.3-Trichloropropane	S14-Ja03494	NCP	%	110			70-130	Pass	
1.2.4-Trimethylbenzene	S14-Ja03494	NCP	%	98			70-130	Pass	
1.3-Dichlorobenzene	S14-Ja03494	NCP	%	98			70-130	Pass	
1.3-Dichloropropane	S14-Ja03494	NCP	%	104			70-130	Pass	
1.3.5-Trimethylbenzene	S14-Ja03494	NCP	%	99			70-130	Pass	
1.4-Dichlorobenzene	S14-Ja03494	NCP	%	99			70-130	Pass	
2-Butanone (MEK)	S14-Ja03494	NCP	%	103			70-130	Pass	
4-Chlorotoluene	S14-Ja03494	NCP	%	99			70-130	Pass	
4-Methyl-2-pentanone (MIBK)	S14-Ja03494	NCP	%	103			70-130	Pass	
Bromobenzene	S14-Ja03494	NCP	%	102			70-130	Pass	
Bromochloromethane	S14-Ja03494	NCP	%	93			70-130	Pass	
Bromodichloromethane	S14-Ja03494	NCP	%	93			70-130	Pass	
Bromoform	S14-Ja03494	NCP	%	97			70-130	Pass	
Bromomethane	S14-Ja03494	NCP	%	95			70-130	Pass	
Carbon disulfide	S14-Ja03494	NCP	%	114			70-130	Pass	
Carbon Tetrachloride	S14-Ja03494	NCP	%	88			70-130	Pass	
Chlorobenzene	S14-Ja03494	NCP	%	102			70-130	Pass	
Chloroethane	S14-Ja03494	NCP	%	93			70-130	Pass	
Chloroform	S14-Ja03494	NCP	%	94			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Chloromethane	S14-Ja03494	NCP	%	78			70-130	Pass	
cis-1.2-Dichloroethene	S14-Ja03494	NCP	%	93			70-130	Pass	
cis-1.3-Dichloropropene	S14-Ja03494	NCP	%	92			70-130	Pass	
Dibromochloromethane	S14-Ja03494	NCP	%	96			70-130	Pass	
Dibromomethane	S14-Ja03494	NCP	%	90			70-130	Pass	
Iodomethane	S14-Ja03494	NCP	%	88			75-125	Pass	
Isopropyl benzene (Cumene)	S14-Ja03494	NCP	%	102			70-130	Pass	
Methylene Chloride	S14-Ja03494	NCP	%	96			70-130	Pass	
Styrene	S14-Ja03494	NCP	%	101			70-130	Pass	
Tetrachloroethene	S14-Ja03494	NCP	%	101			70-130	Pass	
trans-1.2-Dichloroethene	S14-Ja03494	NCP	%	98			70-130	Pass	
trans-1.3-Dichloropropene	S14-Ja03494	NCP	%	92			70-130	Pass	
Trichloroethene	S14-Ja03494	NCP	%	96			70-130	Pass	
Trichlorofluoromethane	S14-Ja03494	NCP	%	88			70-130	Pass	
Vinyl chloride	S14-Ja03494	NCP	%	85			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S14-Ja03466	CP	%	108			70-130	Pass	
4.4'-DDD	S14-Ja03466	CP	%	127			70-130	Pass	
4.4'-DDE	S14-Ja03466	CP	%	108			70-130	Pass	
4.4'-DDT	S14-Ja03466	CP	%	73			70-130	Pass	
a-BHC	S14-Ja03466	CP	%	110			70-130	Pass	
Aldrin	S14-Ja03466	CP	%	111			70-130	Pass	
b-BHC	S14-Ja03466	CP	%	111			70-130	Pass	
d-BHC	S14-Ja03466	CP	%	115			70-130	Pass	
Dieldrin	S14-Ja03466	CP	%	103			70-130	Pass	
Endosulfan I	S14-Ja03466	CP	%	114			70-130	Pass	
Endosulfan II	S14-Ja03466	CP	%	102			70-130	Pass	
Endosulfan sulphate	S14-Ja03466	CP	%	97			70-130	Pass	
Endrin	S14-Ja03466	CP	%	101			70-130	Pass	
Endrin aldehyde	S14-Ja03466	CP	%	89			70-130	Pass	
Endrin ketone	S14-Ja03466	CP	%	87			70-130	Pass	
g-BHC (Lindane)	S14-Ja03466	CP	%	107			70-130	Pass	
Heptachlor	S14-Ja03466	CP	%	94			70-130	Pass	
Heptachlor epoxide	S14-Ja03466	CP	%	103			70-130	Pass	
Hexachlorobenzene	S14-Ja03466	CP	%	95			70-130	Pass	
Methoxychlor	S14-Ja03466	CP	%	77			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S14-Ja03485	CP	%	107			70-130	Pass	
TRH C10-C14	S14-Ja03485	CP	%	94			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S14-Ja03485	CP	%	118			70-130	Pass	
Toluene	S14-Ja03485	CP	%	109			70-130	Pass	
Ethylbenzene	S14-Ja03485	CP	%	108			70-130	Pass	
m&p-Xylenes	S14-Ja03485	CP	%	109			70-130	Pass	
o-Xylene	S14-Ja03485	CP	%	121			70-130	Pass	
Xylenes - Total	S14-Ja03485	CP	%	113			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S14-Ja03485	CP	%	84			70-130	Pass	
TRH C6-C10	S14-Ja03485	CP	%	106			70-130	Pass	
TRH >C10-C16	S14-Ja03485	CP	%	104			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S14-Ja03485	CP	%	106			70-130	Pass	
Cadmium	S14-Ja03485	CP	%	114			70-130	Pass	
Chromium	S14-Ja03485	CP	%	124			70-130	Pass	
Nickel	S14-Ja03485	CP	%	110			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S14-Ja03462	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S14-Ja03462	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S14-Ja03462	CP	mg/kg	93	91	3.0	30%	Pass	
TRH C29-C36	S14-Ja03462	CP	mg/kg	81	78	4.0	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S14-Ja03462	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S14-Ja03462	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S14-Ja03462	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S14-Ja03462	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S14-Ja03462	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total	S14-Ja03462	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S14-Ja03462	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S14-Ja03462	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S14-Ja03462	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S14-Ja03462	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S14-Ja03462	CP	mg/kg	150	140	4.0	30%	Pass	
TRH >C34-C40	S14-Ja03462	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S14-Ja03462	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S14-Ja03462	CP	mg/kg	0.5	0.6	21	30%	Pass	
Anthracene	S14-Ja03462	CP	mg/kg	1.0	1.0	6.0	30%	Pass	
Benz(a)anthracene	S14-Ja03462	CP	mg/kg	3.0	3.0	1.0	30%	Pass	
Benzo(a)pyrene	S14-Ja03462	CP	mg/kg	3.3	3.0	9.0	30%	Pass	
Benzo(b&j)fluoranthene	S14-Ja03462	CP	mg/kg	2.7	2.6	4.0	30%	Pass	
Benzo(g.h.i)perylene	S14-Ja03462	CP	mg/kg	2.0	1.7	13	30%	Pass	
Benzo(k)fluoranthene	S14-Ja03462	CP	mg/kg	1.7	1.5	10	30%	Pass	
Chrysene	S14-Ja03462	CP	mg/kg	2.7	2.6	4.0	30%	Pass	
Dibenz(a.h)anthracene	S14-Ja03462	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S14-Ja03462	CP	mg/kg	5.7	6.1	6.0	30%	Pass	
Fluorene	S14-Ja03462	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja03462	CP	mg/kg	1.6	1.4	15	30%	Pass	
Naphthalene	S14-Ja03462	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S14-Ja03462	CP	mg/kg	2.9	3.3	15	30%	Pass	
Pyrene	S14-Ja03462	CP	mg/kg	5.6	5.6	1.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S14-Ja03462	CP	mg/kg	5.0	3.8	28	30%	Pass	
Cadmium	S14-Ja03462	CP	mg/kg	1.0	0.9	7.0	30%	Pass	
Chromium	S14-Ja03462	CP	mg/kg	8.2	7.1	14	30%	Pass	
Copper	S14-Ja03462	CP	mg/kg	110	96	10	30%	Pass	
Lead	S14-Ja03462	CP	mg/kg	330	400	20	30%	Pass	

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Mercury	S14-Ja04702	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Nickel	S14-Ja03462	CP	mg/kg	7.3	6.3	14	30%	Pass	
Zinc	S14-Ja03462	CP	mg/kg	440	380	14	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.1-Dichloroethene	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.1.1-Trichloroethane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.1.2-Trichloroethane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	S14-Ja03494	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromoethane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.2-Dichlorobenzene	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.2-Dichloroethane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.2-Dichloropropane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.2.3-Trichloropropane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.2.4-Trimethylbenzene	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.3-Dichlorobenzene	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.3-Dichloropropane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.3.5-Trimethylbenzene	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.4-Dichlorobenzene	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
2-Butanone (MEK)	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4-Chlorotoluene	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Bromobenzene	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Bromochloromethane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Bromodichloromethane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Bromoform	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Bromomethane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Carbon disulfide	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Carbon Tetrachloride	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Chlorobenzene	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Chloroethane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Chloroform	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Chloromethane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
cis-1.2-Dichloroethene	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
cis-1.3-Dichloropropene	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dibromochloromethane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dibromomethane	S14-Ja03494	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorodifluoromethane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Iodomethane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Isopropyl benzene (Cumene)	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methylene Chloride	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Styrene	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Tetrachloroethene	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
trans-1.2-Dichloroethene	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
trans-1.3-Dichloropropene	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Trichloroethene	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Trichlorofluoromethane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Vinyl chloride	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	

Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S14-Ja03466	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S14-Ja03466	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S14-Ja03466	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S14-Ja03466	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	S14-Ja03466	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S14-Ja03466	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	S14-Ja03466	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-BHC	S14-Ja03466	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S14-Ja03466	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S14-Ja03466	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S14-Ja03466	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S14-Ja03466	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S14-Ja03466	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S14-Ja03466	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S14-Ja03466	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	S14-Ja03466	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S14-Ja03466	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S14-Ja03466	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S14-Ja03466	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S14-Ja03466	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Toxaphene	S14-Ja03466	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls (PCB)				Result 1	Result 2	RPD			
Aroclor-1016	S14-Ja03466	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1232	S14-Ja03466	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1242	S14-Ja03466	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1248	S14-Ja03466	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1254	S14-Ja03466	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1260	S14-Ja03466	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S14-Ja03485	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S14-Ja03485	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S14-Ja03485	CP	mg/kg	58	59	1.0	30%	Pass	
TRH C29-C36	S14-Ja03485	CP	mg/kg	62	63	2.0	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S14-Ja03485	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S14-Ja03485	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S14-Ja03485	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S14-Ja03485	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S14-Ja03485	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total	S14-Ja03485	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S14-Ja03485	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S14-Ja03485	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S14-Ja03485	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S14-Ja03485	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S14-Ja03485	CP	mg/kg	120	120	5.0	30%	Pass	
TRH >C34-C40	S14-Ja03485	CP	mg/kg	< 100	< 100	<1	30%	Pass	

Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S14-Ja03485	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S14-Ja03485	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S14-Ja03485	CP	mg/kg	< 0.5	0.5	12	30%	Pass	
Benz(a)anthracene	S14-Ja03485	CP	mg/kg	1.9	1.8	7.0	30%	Pass	
Benzo(a)pyrene	S14-Ja03485	CP	mg/kg	2.2	2.0	10	30%	Pass	
Benzo(g.h.i)perylene	S14-Ja03485	CP	mg/kg	1.3	1.2	10	30%	Pass	
Benzo(k)fluoranthene	S14-Ja03485	CP	mg/kg	1.1	1.0	13	30%	Pass	
Chrysene	S14-Ja03485	CP	mg/kg	1.6	1.5	6.0	30%	Pass	
Dibenz(a.h)anthracene	S14-Ja03485	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S14-Ja03485	CP	mg/kg	2.9	3.0	2.0	30%	Pass	
Fluorene	S14-Ja03485	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja03485	CP	mg/kg	1.1	0.9	16	30%	Pass	
Naphthalene	S14-Ja03485	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S14-Ja03485	CP	mg/kg	3.0	3.0	1.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S14-Ja03485	CP	mg/kg	5.8	6.0	3.0	30%	Pass	
Cadmium	S14-Ja03485	CP	mg/kg	1.3	1.2	11	30%	Pass	
Chromium	S14-Ja03485	CP	mg/kg	15	18	16	30%	Pass	
Copper	S14-Ja03485	CP	mg/kg	200	270	28	30%	Pass	
Lead	S14-Ja03485	CP	mg/kg	3000	3400	13	30%	Pass	
Nickel	S14-Ja03485	CP	mg/kg	12	13	9.0	30%	Pass	
Zinc	S14-Ja03485	CP	mg/kg	750	800	7.0	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q08	The matrix spike recovery is outside of the recommended acceptance criteria. An acceptable recovery was obtained for the laboratory control sample indicating a sample matrix interference
Q15	The RPD reported passes Eurofins | mgt's Acceptance Criteria as stipulated in SOP 05. Refer to Glossary Page of this report for further details

Authorised By

Jean Heng	Client Services
James Norford	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)
Ryan Hamilton	Senior Analyst-Volatile (NSW)

Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

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eurofins | mgt
Unit F3-F6 Building F, Parkview Building
16 Mars Road, Lane Cove West
NSW 2066

CHAIN OF CUSTODY

#405416

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square Block 15A
SEND REPORT TO: N Cussen
SEND INVOICE TO: Grace Ng
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: Chris B
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: NCussen@jbsg.com.au
QC LEVEL: NEPM (2013)

JBS&G SPECIFIC SUITES

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	JB1	JB1T	JB1A	JB2	JB2A	B10	JB2/JBL	JB3/JBL	JB4	JBL	8 Metals	TPH	PAH	BTEX	EC	pH	CEC 276	VOC				NOTES:
FC049 0.2-0.3	soil	10/1/14		Ice + Ice																							
FC049 1.0-1.2																X	X	X									
FC049 1.9-2.0																											
FC049 2.8-3.0																											
FC049 3.5-3.7																X	X		X				X				
FC050 0.2-0.3									X																		
FC050 1.5-1.7																											
FC050 2.9-3.0																X	X	X									
FC050 4.5-4.7																											
FC051 0.1-0.2																											
FC051 0.2-0.4																											
FC051 1.2-1.4																X	X	X									
FC051 2.8-3.0																											
FC051 3.6-3.8																X	X	X									
FC051 4.1-4.3																											
FC052 0.2-0.3																											
FC052 0.8-1.0																											
FC052 1.8-2.0																											
FC052 2.8-3.0									X																		

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Nathan DATE: 10/1/14	CONSIGNMENT NOTE NO.	NAME: Ellen Ng 130114	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: OF: EF/mgt 1700	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - eurofins mgt

JB1 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1T - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos
JB2 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
B10 - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2/JBL - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)
JB3/JBL - TRH/BTEX/PAH/OCP/OPP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)/Asbestos
JB4 - TRH/BTEX/VOC
JBL - TCLP(PAH & 6 Metals)

eurofins | mgt
Unit F3-F6 Building F, Parkview Building
16 Mars Road, Lane Cove West
NSW 2066

CHAIN OF CUSTODY

#405416

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square Block 15A
SEND REPORT TO: N Cussen SEND INVOICE TO: Grace Ng
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: Chris B
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: ncussen@jbsg.com.au
QC LEVEL: NEPM (2013)

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	JB1	JB1T	JB1A	JB2	JB2A	B10	JB2/JBL	JB3/JBL	JB4	JBL	8 Metals	TPH	PAH	BTEX	EC	pH	ASA 276	VOCs			NOTES:
FC052 3.8-4.0	Soil	10/1/14		Ice + Ice												X	X	X	X							
FC096 0.2-0.3																										
FC096 0.5-0.6									X																	
FC096 1.8-2.0																X	X						X			
FC096 3.8-4.0	↓	↓		↓																						
QC07	↓	↓		↓					X																	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Nathan DATE: 10/1/14 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: Ellen Wg. 130114 DATE: OF: EP1mgt 17:00	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C
NAME: DATE: OF:	CONSIGNMENT NOTE NO. TRANSPORT CO	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - eurofins mgt

JB1 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1T - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos
JB2 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
B10 - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2/JBL - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)
JB3/JBL - TRH/BTEX/PAH/OCP/OPP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)/Asbestos
JB4 - TRH/BTEX/VOC
JBL - TCLP(PAH & 6 Metals)

PICKFORD & RHYDER CONSULTING PTY LTD
ABN 17 105 546 076
Occupational Hygiene Measurements and Solutions.

PO Box 1422 Lane Cove 1595
Rear - 244 Burns Bay Road
Lane Cove NSW Australia
Phone: (02) 9418 9151
Fax: (02) 9418 9150

16 January 2014

N. Cussen
JBS&G (NSW & WA) Pty Ltd
Level 1
50 Margaret Street
SYDNEY NSW 2000

Email: ncussen@jbsg.com.au,

CERTIFICATE OF ANALYSIS – ASBESTOS IDENTIFICATION

YOUR REFERENCE/JOB No: 43182
TYPE OF SAMPLES: Bulk sample - as received from Envirolab Services
SITE LOCATION: Green Square, Block 15A
DATE SAMPLED: 10 January 2014 **DATE RECEIVED:** 15 January 2014
OUR REFERENCE: 77792-ID

TEST METHOD: Soil samples examined by Stereomicroscopy and Polarized Light Microscopy (with Dispersion Staining) in accordance with AS 4964-2004: - 'Method for the qualitative identification of asbestos in bulk samples' as outlined in Laboratory Method ID/1. The Reporting Limit for the results in this Certificate is numerically equal to the lowest detection limit of 0.1 g/kg. Trace asbestos analysis has been conducted on each sample, which is generally designed to detect 'respirable' asbestos fibres (ie less than 3 micrometres in width) distributed throughout the sample.

Sample No	*Lab No*	*Sample Information*	*Analysis Result*	*Description*
QC07-A	77792	Soil sample as received	Chrysotile asbestos detected	The sample was a grey soil with stones, of total approximate weight 437 g, in which asbestos fibres & organic fibres were detected in the +2 mm fraction. Chrysotile asbestos fibres were identified in a fibrous bundle measuring 2 x 4 x 0.1 mm in dimensions. No asbestos fibres were detected in a representative sub-sample of the –2 mm fraction. No asbestos fibres were found at the Reporting Limit of 0.1g/kg. No asbestos fibres were detected in the trace analysis.

All sampling and site work has been undertaken by the client - the analytical procedures and results reported on this Certificate have been conducted by Pickford & Rhyder Consulting.

Sampling is not covered by the scope of accreditation.

Analysed and reported by:

Gary Conaty,
Approved Identifier and Signatory.

NATA
ACCREDITED FOR TECHNICAL COMPETENCE

Accredited for compliance with ISO/IEC 17025. This document shall not be reproduced except in full.

Accreditation number 2515

77792

12 Ashley Street
Chatswood
NSW 2067

For P&K

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square Block 15A
SEND REPORT TO: N Cussen SEND INVOICE TO: Grace NJ
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

P&K

LABORATORY BATCH NO.:
SAMPLERS: Chris B
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: ncussen@jbsg.com.a

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	SOIL - 4	SOIL – 4L	SOIL – 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER – 1m	WATER – 2L	WATER – 3L	Asbestos 60g	NOTES:
QC07 – A	Soil	10/1/14		Bag 500 ml												x	

RELINQUISHED BY:
NAME: Neha DATE: 10/1/14
OF: JBS&G

NAME: DATE: 15/1/14
OF: JBS&G

METHOD OF SHIPMENT:
CONSIGNMENT NOTE NO.
TRANSPORT CO.
CONSIGNMENT NOTE NO.
TRANSPORT CO

RECEIVED BY:
NAME:
DATE:
OF:

NAME: DATE:
OF:

FOR RECEIVING LAB USE ONLY:
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO Forms013 – Chain of Custody - Envirolab

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

Recd by JM
15/1/14
9:30

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

SAMPLE RECEIPT ADVICE

Client:

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney NSW 2000

ph: 02 8245 0300
Fax: 02 8245 0399

Attention: Joanne Rosner, Nathan Cussen

Sample log in details:

Your reference:	**43182, Green Square Block 15A**
Envirolab Reference:	**103551**
Date received:	15/01/2014
Date results expected to be reported:	**22/01/14**

Samples received in appropriate condition for analysis:	YES
No. of samples provided	4 Soils
Turnaround time requested:	Standard
Temperature on receipt (°C)	NA
Cooling Method:	None
Sampling Date Provided:	YES

Comments:

Samples will be held for 1 month for water samples and 2 months for soil samples from date of receipt of samples.

Contact details:

Please direct any queries to Aileen Hie or Jacinta Hurst
ph: 02 9910 6200 fax: 02 9910 6201
email: ahie@envirolabservices.com.au or jhurst@envirolabservices.com.au

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

CERTIFICATE OF ANALYSIS 103551

Client:

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention: Joanne Rosner, Nathan Cussen

Sample log in details:

Your Reference:	**43182, Green Square Block 15A**
No. of samples:	4 Soils
Date samples received / completed instructions received	15/01/2014 / 15/01/2014

Analysis Details:

Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by: / Issue Date:	22/01/14 / 22/01/14
Date of Preliminary Report:	Not Issued

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Accredited for compliance with ISO/IEC 17025. **Tests not covered by NATA are denoted with *.**

Results Approved By:

Jacinta Hurst
Laboratory Manager

Asbestos ID - soils WA		
Our Reference:	UNITS	103551-4
Your Reference	----------	FC052
Depth	----------	6.5-6.8
Date Sampled		13/01/2014
Type of sample		soil
Date analysed	-	22/01/2014
Sample mass tested	g	559.07g
Sample Description	-	Dark brown fine-grained soil & rocks
Asbestos ID in soil	-	Chrysotile asbestos detected Amosite asbestos detected Crocidolite asbestos detected
Trace Analysis	-	No respirable fibres detected

Method ID	Methodology Summary
ASB-003	Asbestos ID - Minimum 500mL soil sample was analysed as recommended by "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.1g/kg as per AS4964-2004.

Report Comments:

This report is consistent with the analytical procedures and reporting recommendations in the Western Australian Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009.

Sample103551-4 ; Chrysotile, Amosite & Crocidolite asbestos identified in matted material (total weight 0.4726g). It is estimated that the matted material contains up to 75% asbestos fibres by weight. This calculates to 0.3544g of asbestos fibres, which in 559.07g of soil is 0.63g/kg (i.e. > reporting limit for the method of 0.1g/kg).

Asbestos ID was analysed by Approved Identifier:	Alex Tam
Asbestos ID was authorised by Approved Signatory:	Matt Mansfield

INS: Insufficient sample for this test	PQL: Practical Quantitation Limit	NT: Not tested
NA: Test not required	RPD: Relative Percent Difference	NA: Test not required
<: Less than	>: Greater than	LCS: Laboratory Control Sample

Quality Control Definitions

Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

Duplicate: This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

Matrix Spike : A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

LCS (Laboratory Control Sample) : This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Surrogate Spike: Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.
Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.
Spikes for Physical and Aggregate Tests are not applicable.
For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.
Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for SVOC and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Envirolab Services Pty Ltd
12 Ashley Street
Chatswood
NSW 2067

Page 1 of 1

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square Block 15A
SEND REPORT TO: N Cussine SEND INVOICE TO: G Ng
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: NC
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: ncussine@jbsg.com.au
QC LEVEL: NEPM (2013)

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	COMBO SUITES: SOIL - 4	SOIL – 4L	SOIL – 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER – 1m	WATER – 2L	WATER – 3L	Asbestos	NOTES:
1.	FC096 5.5-5.7	soil	13.1.14		Bag													
2.	FC096 6.1-6.3	↓	↓		↓													
3.	FC096 7.3-7.5																	
4.	FC052 6.5-6.8															X		

ENVIROLAB
Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 103551
Date Received: 15.1.14
Time Received: 15:30
Received by: DF
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Nathan DATE: 13.01.14	CONSIGNMENT NOTE NO.	NAME: Daniel FORD	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 15.1.14	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	OF: ELS	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	NAME: DATE: OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Envirolab

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

SAMPLE RECEIPT ADVICE

Client:

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney NSW 2000

ph: 02 8245 0300
Fax: 02 8245 0399

Attention: Joanne Rosner, Nathan Cussen

Sample log in details:

Your reference:	**43182, Green Square Block 15A**
Envirolab Reference:	**103480**
Date received:	14/01/14
Date results expected to be reported:	**21/01/14**

Samples received in appropriate condition for analysis:	YES
No. of samples provided	25 soils
Turnaround time requested:	Standard
Temperature on receipt (°C)	NA
Cooling Method:	None
Sampling Date Provided:	YES

Comments:

Samples will be held for 1 month for water samples and 2 months for soil samples from date of receipt of samples.

Contact details:

Please direct any queries to Aileen Hie or Jacinta Hurst
ph: 02 9910 6200 fax: 02 9910 6201
email: ahie@envirolabservices.com.au or jhurst@envirolabservices.com.au

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

CERTIFICATE OF ANALYSIS 103480

Client:
JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention: Joanne Rosner, Nathan Cussen

Sample log in details:

Your Reference:	**43182, Green Square Block 15A**		
No. of samples:	25 soils		
Date samples received / completed instructions received	14/01/14	/	14/01/14

Analysis Details:
Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by: / Issue Date:	21/01/14	/	20/01/14
Date of Preliminary Report:	Not Issued		

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Results Approved By:

Jacinta Hurst
Laboratory Manager

Asbestos ID - soils WA						
Our Reference:	UNITS	103480-2	103480-5	103480-6	103480-8	103480-12
Your Reference	----------	FC049	FC049	FC050	FC050	FC051
Depth	----------	1.0-1.2	3.5-3.7	0.2-0.3	2.8-3.0	1.2-1.4
Date Sampled		10/01/2014	10/01/2014	10/01/2014	10/01/2014	10/01/2014
Type of sample		soil	soil	soil	soil	soil
Date analysed	-	17/01/2014	17/01/2014	17/01/2014	17/01/2014	17/01/2014
Sample mass tested	g	725.17g	717.56g	800.30g	786.94g	784.97g
Sample Description	-	Brown fine-grained soil	Beige sandy soil & rocks	Beige sandy soil	Beige sandy soil & rocks	Beige sandy soil
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected

Asbestos ID - soils WA						
Our Reference:	UNITS	103480-14	103480-19	103480-20	103480-22	103480-23
Your Reference	----------	FC051	FC052	FC052	FC096	FC096
Depth	----------	3.6-3.8	2.8-3.0	3.8-4.0	0.5-0.6	1.8-2.0
Date Sampled		10/01/2014	10/01/2014	10/01/2014	10/01/2014	10/01/2014
Type of sample		soil	soil	soil	soil	soil
Date analysed	-	17/01/2014	17/01/2014	17/01/2014	17/01/2014	17/01/2014
Sample mass tested	g	811.46g	715.34g	668.66g	865.14g	798.70g
Sample Description	-	Beige sandy soil & rocks	Beige sandy soil & rocks	Beige sandy soil & rocks	Grey sandy soil & rocks	Beige sandy soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	Chrysotile asbestos detected	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected

Asbestos ID - soils WA		
Our Reference:	UNITS	103480-25
Your Reference	----------	QC07
Depth	----------	-
Date Sampled		10/01/2014
Type of sample		soil
Date analysed	-	17/01/2014
Sample mass tested	g	772.96g
Sample Description	-	Grey sandy soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected

Method ID	Methodology Summary
ASB-003	Asbestos ID - Minimum 500mL soil sample was analysed as recommended by "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.1g/kg as per AS4964-2004.

Report Comments:

This report is consistent with the analytical procedures and reporting recommendations in the Western Australian Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009.

Sample 103480-2; Loose fibre bundles of chrysotile asbestos identified within the sample (total weight 0.0007g). This is 100% asbestos fibres by weight, which in 725.17g of soil is 0.00g/kg (i.e. < reporting limit for the method of 0.1g/kg).

Sample 103480-8; Loose fibre bundles of chrysotile asbestos identified within the sample (total weight 0.0089g). This is 100% asbestos fibres by weight, which in 786.94g of soil is 0.01g/kg i.e. < reporting limit for the method of 0.1g/kg).

Sample 103480-19; Chrysotile asbestos identified in matted material (total weight 0.2070g). It is estimated that the matted material contains up to 60% asbestos fibres by weight. This calculates to 0.1242g of asbestos fibres, which in 715.34g of soil is 0.17g/kg (i.e. > reporting limit for the method of 0.1g/kg).

Sample 103480-23; Chrysotile asbestos identified embedded in a fragment of fibre cement (total weight 0.0009g). It is estimated that the fibre cement contains up to 15% asbestos fibres by weight. This calculates to 0.0001g of asbestos fibres, which in 798.70g of soil is 0.00g/kg (i.e. < reporting limit for the method of 0.1g/kg).

Sample 103480-25; Loose fibre bundles of chrysotile asbestos identified within the sample (total weight 0.0009g). This is 100% asbestos fibres by weight, which in 772.96g of soil is 0.00g/kg (i.e. < reporting limit for the method of 0.1g/kg).

Asbestos ID was analysed by Approved Identifier:	Paul Ching
Asbestos ID was authorised by Approved Signatory:	Paul Ching

INS: Insufficient sample for this test	PQL: Practical Quantitation Limit	NT: Not tested
NA: Test not required	RPD: Relative Percent Difference	NA: Test not required
<: Less than	>: Greater than	LCS: Laboratory Control Sample

Quality Control Definitions

Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

Duplicate: This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

Matrix Spike : A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

LCS (Laboratory Control Sample) : This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Surrogate Spike: Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable

Envirolab Services Pty Ltd
12 Ashley Street
Chatswood
NSW 2067

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square Block 15A
SEND REPORT TO: N Cussen SEND INVOICE TO: Grace Ng
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: Chris B
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: ncussen@jbsg.com.au
QC LEVEL: NEPM (2013)

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	COMBO SUITES: SOIL - 4	SOIL – 4L	SOIL – 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER – 1m	WATER – 2L	WATER – 3L	Asbestos (ACM)	NOTES:
1	FC049 0.2 – 0.3	10/1/14	Soil		Bag													
2	FC049 1.0 – 1.2															X		
3	FC049 1.8 – 2.0																	
4	FC049 2.8 – 3.0																	
5	FC049 3.5 – 3.7																	
6	FC050 0.2 – 0.3															X		
7	FC050 1.5 – 1.7															X		
8	FC050 2.8 – 3.0																	
9	FC050 4.5 – 4.7															X		
10	FC050 0.1 – 0.2																	
11	FC050 0.2 – 0.4																	
12	FC050 1.2 – 1.4																	
13	FC050 2.8 – 3.0															X		
14	FC050 3.6 – 3.8																	
15	FC050 4.1 – 4.3															X		
16	FC052 0.2 – 0.3																	
17	FC052 0.8 – 1.0																	
18	FC052 1.8 – 2.0																	
19																		

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 103480
Date Received: 14/1/14
Time Received: 9:00
Received by:
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Nathan DATE: 10/1/14	CONSIGNMENT NOTE NO.	NAME: Ice with DATE: 14/1/14 9:00	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	OF: ENVS	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Envirolab

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

Envirolab Services Pty Ltd
12 Ashley Street
Chatswood
NSW 2067

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square Block 15A
SEND REPORT TO: N Cussen SEND INVOICE TO: Grace Ng
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

103480.

LABORATORY BATCH NO.:
SAMPLERS: Chris D
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: ncussen@jbsg.com.au
QC LEVEL: NEPM (2013)

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	COMBO SUITES: SOIL-4	SOIL-4L	SOIL-4A	SOIL-5	SOIL 5A	SOIL 5B	SOIL-12	WATER-1m	WATER-2L	WATER-3L	Asbestos (DUH)	NOTES:
19	FC052 2.8-3.0	Soil	10/1/14		Bag												x	
20	FC052 3.8-4.0																x	
21	FC096 0.2-0.3																	
22	FC096 0.5-0.6																	
23	FC096 1.8-2.0																x	
24	FC096 3.8-4.0																x	
25	QC07																	
	QC07-A																x	

Please send to PAR

RELINQUISHED BY:
NAME: Nitha DATE: 10/1/14
OF: JBS&G
NAME: DATE:
OF:

METHOD OF SHIPMENT:
CONSIGNMENT NOTE NO.
TRANSPORT CO.
CONSIGNMENT NOTE NO.
TRANSPORT CO

RECEIVED BY:
NAME: Teesin Wang
DATE: 14/1/14
OF: ALS
NAME: DATE:
OF:

FOR RECEIVING LAB USE ONLY:
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Envirolab

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

SAMPLE RECEIPT ADVICE

Client:

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney NSW 2000

ph: 02 8245 0300
Fax: 02 8245 0399

Attention: Joanne Rosner, Nathan Cussen

Sample log in details:

Your reference:	**43182, Green Square Block 15A**
Envirolab Reference:	**103458**
Date received:	14/01/14
Date results expected to be reported:	**21/01/14**

Samples received in appropriate condition for analysis:	YES
No. of samples provided	1 soil
Turnaround time requested:	Standard
Temperature on receipt (°C)	NA
Cooling Method:	None
Sampling Date Provided:	YES

Comments:

Samples will be held for 1 month for water samples and 2 months for soil samples from date of receipt of samples.

Contact details:

Please direct any queries to Aileen Hie or Jacinta Hurst
ph: 02 9910 6200 fax: 02 9910 6201
email: ahie@envirolabservices.com.au or jhurst@envirolabservices.com.au

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

CERTIFICATE OF ANALYSIS 103458

Client:
JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention: Joanne Rosner, Nathan Cussen

Sample log in details:

Your Reference:	**43182, Green Square Block 15A**		
No. of samples:	1 soil		
Date samples received / completed instructions received	14/01/14	/	14/01/14

Analysis Details:
Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by: / Issue Date:	21/01/14	/	17/01/14
Date of Preliminary Report:	Not issued		

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Accredited for compliance with ISO/IEC 17025. **Tests not covered by NATA are denoted with *.**

Results Approved By:

Jacinta Hurst
Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil		
Our Reference:	UNITS	103458-1
Your Reference	----------	QC06-A
Date Sampled	----------	10/01/2014
Type of sample		soil
Date extracted	-	15/01/2014
Date analysed	-	16/01/2014
TRHC$_6$ - C$_9$	mg/kg	<25
TRHC$_6$ - C$_{10}$	mg/kg	<25
vTPHC$_6$ - C$_{10}$ less BTEX (F1)	mg/kg	<25
Benzene	mg/kg	<0.2
Toluene	mg/kg	<0.5
Ethylbenzene	mg/kg	<1
m+p-xylene	mg/kg	<2
o-Xylene	mg/kg	<1
naphthalene	mg/kg	<1
Surrogate aaa-Trifluorotoluene	%	95

svTRH (C10-C40) in Soil		
Our Reference:	UNITS	103458-1
Your Reference	----------	QC06-A
Date Sampled	----------	10/01/2014
Type of sample		soil
Date extracted	-	15/01/2014
Date analysed	-	16/01/2014
TRHC$_{10}$ - C$_{14}$	mg/kg	<50
TRHC$_{15}$ - C$_{28}$	mg/kg	<100
TRHC$_{29}$ - C$_{36}$	mg/kg	<100
TRH>C$_{10}$-C$_{16}$	mg/kg	<50
TRH>C$_{10}$ - C$_{16}$ less Naphthalene (F2)	mg/kg	<50
TRH>C$_{16}$-C$_{34}$	mg/kg	160
TRH>C$_{34}$-C$_{40}$	mg/kg	<100
Surrogate o-Terphenyl	%	89

PAHs in Soil		
Our Reference:	UNITS	103458-1
Your Reference	----------	QC06-A
Date Sampled	----------	10/01/2014
Type of sample		soil
Date extracted	-	15/01/2014
Date analysed	-	16/01/2014
Naphthalene	mg/kg	<0.1
Acenaphthylene	mg/kg	0.3
Acenaphthene	mg/kg	<0.1
Fluorene	mg/kg	<0.1
Phenanthrene	mg/kg	1.2
Anthracene	mg/kg	0.3
Fluoranthene	mg/kg	3.7
Pyrene	mg/kg	3.9
Benzo(a)anthracene	mg/kg	2.1
Chrysene	mg/kg	2.2
Benzo(b+k)fluoranthene	mg/kg	4.5
Benzo(a)pyrene	mg/kg	3.0
Indeno(1,2,3-c,d)pyrene	mg/kg	2.2
Dibenzo(a,h)anthracene	mg/kg	0.4
Benzo(g,h,i)perylene	mg/kg	2.0
Benzo(a)pyrene TEQ NEPM B1	mg/kg	4.0
Total +ve PAH's	mg/kg	26
Surrogate p-Terphenyl-d14	%	117

Organochlorine Pesticides in soil		
Our Reference:	UNITS	103458-1
Your Reference	----------	QC06-A
Date Sampled	----------	10/01/2014
Type of sample		soil
Date extracted	-	15/01/2014
Date analysed	-	17/01/2014
HCB	mg/kg	<0.1
alpha-BHC	mg/kg	<0.1
gamma-BHC	mg/kg	<0.1
beta-BHC	mg/kg	<0.1
Heptachlor	mg/kg	<0.1
delta-BHC	mg/kg	<0.1
Aldrin	mg/kg	<0.1
Heptachlor Epoxide	mg/kg	<0.1
gamma-Chlordane	mg/kg	<0.1
alpha-chlordane	mg/kg	<0.1
Endosulfan I	mg/kg	<0.1
pp-DDE	mg/kg	<0.1
Dieldrin	mg/kg	<0.1
Endrin	mg/kg	<0.1
pp-DDD	mg/kg	<0.1
Endosulfan II	mg/kg	<0.1
pp-DDT	mg/kg	<0.1
Endrin Aldehyde	mg/kg	<0.1
Endosulfan Sulphate	mg/kg	<0.1
Methoxychlor	mg/kg	<0.1
Surrogate TCMX	%	94

PCBs in Soil		
Our Reference:	UNITS	103458-1
Your Reference	----------	QC06-A
Date Sampled	----------	10/01/2014
Type of sample		soil
Date extracted	-	15/01/2014
Date analysed	-	17/01/2014
Arochlor 1016	mg/kg	<0.1
Arochlor 1221	mg/kg	<0.1
Arochlor 1232	mg/kg	<0.1
Arochlor 1242	mg/kg	<0.1
Arochlor 1248	mg/kg	<0.1
Arochlor 1254	mg/kg	<0.1
Arochlor 1260	mg/kg	<0.1
Surrogate TCLMX	%	94

Acid Extractable metals in soil		
Our Reference:	UNITS	103458-1
Your Reference	----------	QC06-A
Date Sampled	----------	10/01/2014
Type of sample		soil
Date digested	-	15/01/2014
Date analysed	-	15/01/2014
Arsenic	mg/kg	6
Cadmium	mg/kg	0.9
Chromium	mg/kg	10
Copper	mg/kg	110
Lead	mg/kg	1,600
Mercury	mg/kg	2.2
Nickel	mg/kg	8
Zinc	mg/kg	620

Moisture		
Our Reference:	UNITS	103458-1
Your Reference	----------	QC06-A
Date Sampled	----------	10/01/2014
Type of sample		soil
Date prepared	-	15/01/2014
Date analysed	-	16/01/2014
Moisture	%	6.5

Method ID	Methodology Summary
Org-016	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-014	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-003	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note Naphthalene is determined from the VOC analysis.
Org-012 subset	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.
Org-005	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.
Org-006	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.
Metals-020 ICP-AES	Determination of various metals by ICP-AES.
Metals-021 CV-AAS	Determination of Mercury by Cold Vapour AAS.
Inorg-008	Moisture content determined by heating at 105+/-5 deg C for a minimum of 12 hours.

QUALITY CONTROL vTRH(C6-C10)/BTEXN in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			15/01/2014	[NT]	[NT]	LCS-2	15/01/2014
Date analysed	-			16/01/2014	[NT]	[NT]	LCS-2	16/01/2014
TRHC$_6$ - C$_9$	mg/kg	25	Org-016	<25	[NT]	[NT]	LCS-2	100%
TRHC$_6$ - C$_{10}$	mg/kg	25	Org-016	<25	[NT]	[NT]	LCS-2	100%
Benzene	mg/kg	0.2	Org-016	<0.2	[NT]	[NT]	LCS-2	89%
Toluene	mg/kg	0.5	Org-016	<0.5	[NT]	[NT]	LCS-2	98%
Ethylbenzene	mg/kg	1	Org-016	<1	[NT]	[NT]	LCS-2	102%
m+p-xylene	mg/kg	2	Org-016	<2	[NT]	[NT]	LCS-2	106%
o-Xylene	mg/kg	1	Org-016	<1	[NT]	[NT]	LCS-2	107%
naphthalene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
Surrogate aaa-Trifluorotoluene	%		Org-016	99	[NT]	[NT]	LCS-2	101%
QUALITY CONTROL svTRH (C10-C40) in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			15/01/2014	[NT]	[NT]	LCS-2	15/01/2014
Date analysed	-			16/01/2014	[NT]	[NT]	LCS-2	16/01/2014
TRHC$_{10}$ - C$_{14}$	mg/kg	50	Org-003	<50	[NT]	[NT]	LCS-2	118%
TRHC$_{15}$ - C$_{28}$	mg/kg	100	Org-003	<100	[NT]	[NT]	LCS-2	109%
TRHC$_{29}$ - C$_{36}$	mg/kg	100	Org-003	<100	[NT]	[NT]	LCS-2	87%
TRH>C$_{10}$-C$_{16}$	mg/kg	50	Org-003	<50	[NT]	[NT]	LCS-2	118%
TRH>C$_{16}$-C$_{34}$	mg/kg	100	Org-003	<100	[NT]	[NT]	LCS-2	109%
TRH>C$_{34}$-C$_{40}$	mg/kg	100	Org-003	<100	[NT]	[NT]	LCS-2	87%
Surrogate o-Terphenyl	%		Org-003	88	[NT]	[NT]	LCS-2	100%
QUALITY CONTROL PAHs in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			15/01/2014	[NT]	[NT]	LCS-2	15/01/2014
Date analysed	-			16/01/2014	[NT]	[NT]	LCS-2	16/01/2014
Naphthalene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-2	109%
Acenaphthylene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Acenaphthene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Fluorene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-2	109%
Phenanthrene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-2	112%
Anthracene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Fluoranthene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-2	112%

QUALITY CONTROL PAHs in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base II Duplicate II %RPD	Spike Sm#	Spike % Recovery
Pyrene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-2	118%
Benzo(a)anthracene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Chrysene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-2	119%
Benzo(b+k)fluoranthene	mg/kg	0.2	Org-012 subset	<0.2	[NT]	[NT]	[NR]	[NR]
Benzo(a)pyrene	mg/kg	0.05	Org-012 subset	<0.05	[NT]	[NT]	LCS-2	135%
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Surrogate p-Terphenyl-d14	%		Org-012 subset	115	[NT]	[NT]	LCS-2	109%
QUALITY CONTROL Organochlorine Pesticides in soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base II Duplicate II %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			15/01/2014	[NT]	[NT]	LCS-2	15/01/2014
Date analysed	-			17/01/2014	[NT]	[NT]	LCS-2	17/01/2014
HCB	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
alpha-BHC	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-2	105%
gamma-BHC	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
beta-BHC	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-2	102%
Heptachlor	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-2	107%
delta-BHC	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
Aldrin	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-2	109%
Heptachlor Epoxide	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-2	108%
gamma-Chlordane	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
alpha-chlordane	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
Endosulfan I	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
pp-DDE	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-2	102%
Dieldrin	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-2	109%
Endrin	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-2	100%
pp-DDD	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-2	115%
Endosulfan II	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
pp-DDT	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
Endrin Aldehyde	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
Endosulfan Sulphate	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-2	108%
Methoxychlor	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
Surrogate TCMX	%		Org-005	91	[NT]	[NT]	LCS-2	91%

QUALITY CONTROL PCBs in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			15/01/2014	[NT]	[NT]	LCS-2	15/01/2014
Date analysed	-			17/01/2014	[NT]	[NT]	LCS-2	17/01/2014
Arochlor 1016	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1221	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1232	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1242	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1248	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1254	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	LCS-2	93%
Arochlor 1260	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Surrogate TCLMX	%		Org-006	91	[NT]	[NT]	LCS-2	87%

QUALITY CONTROL Acid Extractable metals in soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date digested	-			15/01/2014	[NT]	[NT]	LCS-6	15/01/2014
Date analysed	-			15/01/2014	[NT]	[NT]	LCS-6	15/01/2014
Arsenic	mg/kg	4	Metals-020 ICP-AES	<4	[NT]	[NT]	LCS-6	97%
Cadmium	mg/kg	0.4	Metals-020 ICP-AES	<0.4	[NT]	[NT]	LCS-6	107%
Chromium	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-6	104%
Copper	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-6	100%
Lead	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-6	101%
Mercury	mg/kg	0.1	Metals-021 CV-AAS	<0.1	[NT]	[NT]	LCS-6	80%
Nickel	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-6	103%
Zinc	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-6	106%

QUALITY CONTROL Moisture	UNITS	PQL	METHOD	Blank
Date prepared	-			[NT]
Date analysed	-			[NT]
Moisture	%	0.1	Inorg-008	[NT]

Report Comments:

Asbestos ID was analysed by Approved Identifier:	Not applicable for this job
Asbestos ID was authorised by Approved Signatory:	Not applicable for this job

INS: Insufficient sample for this test	PQL: Practical Quantitation Limit	NT: Not tested
NA: Test not required	RPD: Relative Percent Difference	NA: Test not required
<: Less than	>: Greater than	LCS: Laboratory Control Sample

Quality Control Definitions

Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

Duplicate: This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

Matrix Spike : A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

LCS (Laboratory Control Sample) : This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Surrogate Spike: Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.
Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.
Spikes for Physical and Aggregate Tests are not applicable.
For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.
Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for SVOC and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Envirolab Services Pty Ltd
12 Ashley Street
Chatswood
NSW 2067

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square Block 15A
SEND REPORT TO: N Cussen SEND INVOICE TO: Grace Ng
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: Chris B.
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: ncussen@jbsg.com.a
QC LEVEL: NEPM (2013)

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	COMBO SUITES: SOIL - 4	SOIL – 4L	SOIL – 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER – 1m	WATER – 2L	WATER – 3L	NOTES:
QC07 - A	soil	10/1/14		Jar + Ice					X							

ENVIROLAB

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 103458
Date Received: 14/01
Time Received: 9:00
Received by: SB
Temp: Cool/Ambient
Cooling: Ice/Ice pack
Security: Intact/Broken/None

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: Soquel DATE: OF: ES	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C
NAME: DATE: OF:	CONSIGNMENT NOTE NO. TRANSPORT CO	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Envirolab

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

eurofins | mgt

ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

Melbourne
3-5 Kingston Town Close
Oakleigh VIC 3166
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F6, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name:	JBS & G (NSW & WA) Pty Ltd	**Order No.:**		**Received:**	Jan 16, 2014 4:50 PM
Address:	Level 1, 50 Margaret St Sydney NSW 2000	**Report #:**	405872	**Due:**	Jan 24, 2014
		Phone:	02 8245 0300	**Priority:**	5 Day
		Fax:		**Contact Name:**	Nathan Cussen
Client Job No.:	ADDITIONAL: GREEN SQUARE BLOCK 8D 43182				

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Polycyclic Aromatic Hydrocarbons	Toxicity Characteristic Leaching Procedure (TCLP)	Metals M8
Laboratory where analysis is conducted								
Melbourne Laboratory - NATA Site # 1254 & 14271								
Sydney Laboratory - NATA Site # 18217					X	X	X	X
Brisbane Laboratory - NATA Site # 20794								
External Laboratory								
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**				
FC80 0.8-1.0	Jan 08, 2014		TCLP	S14-Ja07092	X	X	X	X

eurofins | mgt

ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

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Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Sample Receipt Advice

Company name:	**JBS & G (NSW & WA) Pty Ltd**
Contact name:	Nathan Cussen
Client job number:	ADDITIONAL: GREEN SQUARE BLOCK 8D 43182
COC number:	Not provided
Turn around time:	5 Day
Date/Time received:	Jan 16, 2014 4:50 PM
Eurofins | mgt reference:	**405872**

Sample information

☑ A detailed list of analytes logged into our LIMS, is included in the attached summary table.

☑ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt Sample Receipt : 7 degrees Celsius.

☑ All samples have been received as described on the above COC.

☑ COC has been completed correctly.

☑ Attempt to chill was evident.

☑ Appropriately preserved sample containers have been used.

☑ All samples were received in good condition.

☑ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.

☑ Organic samples had Teflon liners.

☒ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Notes

Additional from 405447

Contact notes

If you have any questions with respect to these samples please contact:

Jean Heng on Phone : (+61) (2) 9900 8400 or by e.mail: JeanHeng@eurofins.com.au

Results will be delivered electronically via e.mail to Nathan Cussen - ncussen@jbsg.com.au.

Eurofins | mgt Sample Receipt

eurofins | mgt

Certificate of Analysis

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Nathan Cussen**

Report **405872-L**
Client Reference ADDITIONAL: GREEN SQUARE BLOCK 8D 43182
Received Date Jan 16, 2014

Client Sample ID			**FC80 0.8-1.0**
Sample Matrix			**TCLP**
Eurofins | mgt Sample No.			**S14-Ja07092**
Date Sampled			**Jan 08, 2014**
Test/Reference	LOR	Unit	
Polycyclic Aromatic Hydrocarbons			
Acenaphthene	0.001	mg/L	< 0.001
Acenaphthylene	0.001	mg/L	< 0.001
Anthracene	0.001	mg/L	< 0.001
Benz(a)anthracene	0.001	mg/L	< 0.001
Benzo(a)pyrene	0.001	mg/L	< 0.001
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	< 0.001
Benzo(g.h.i)perylene	0.001	mg/L	< 0.001
Benzo(k)fluoranthene	0.001	mg/L	< 0.001
Chrysene	0.001	mg/L	< 0.001
Dibenz(a.h)anthracene	0.001	mg/L	< 0.001
Fluoranthene	0.001	mg/L	< 0.001
Fluorene	0.001	mg/L	< 0.001
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001
Naphthalene	0.001	mg/L	< 0.001
Phenanthrene	0.001	mg/L	< 0.001
Pyrene	0.001	mg/L	< 0.001
Total PAH	0.002	mg/L	< 0.001
2-Fluorobiphenyl (surr.)	1	%	107
p-Terphenyl-d14 (surr.)	1	%	124
Heavy Metals			
Arsenic	0.01	mg/L	< 0.01
Cadmium	0.005	mg/L	< 0.005
Chromium	0.05	mg/L	< 0.05
Copper	0.05	mg/L	< 0.05
Lead	0.01	mg/L	0.10
Mercury	0.001	mg/L	< 0.001
Nickel	0.05	mg/L	< 0.05
Zinc	0.05	mg/L	0.74
% Moisture	0.1	%	17
Toxicity Characteristic Leaching Procedure (TCLP)			
Leachate Fluid[C01]		comment	1.0
pH (TCLP - HCl addition)	0.1	units	1.9
pH (TCLP - initial)	0.1	units	8.4
pH (TCLP - off)	0.1	units	5.6

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Polycyclic Aromatic Hydrocarbons	Sydney	Jan 21, 2014	7 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Metals M8	Sydney	Jan 20, 2014	28 Day
- Method: E022 Acid Extractable metals in Soils & E026 Mercury			
% Moisture	Sydney	Jan 20, 2014	0 Day
- Method: E005 Moisture Content			
Toxicity Characteristic Leaching Procedure (TCLP)	Sydney	Jan 20, 2014	0 Day
- Method: E019 TCLP Preparation			

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Company Name:	JBS & G (NSW & WA) Pty Ltd	**Order No.:**		**Received:**	Jan 16, 2014 4:50 PM
Address:	Level 1, 50 Margaret St Sydney NSW 2000	**Report #:**	405872	**Due:**	Jan 24, 2014
		Phone:	02 8245 0300	**Priority:**	5 Day
		Fax:		**Contact Name:**	Nathan Cussen
Client Job No.:	ADDITIONAL: GREEN SQUARE BLOCK 8D 43182				

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Polycyclic Aromatic Hydrocarbons	Toxicity Characteristic Leaching Procedure (TCLP)	Metals M8
Laboratory where analysis is conducted								
Melbourne Laboratory - NATA Site # 1254 & 14271								
Sydney Laboratory - NATA Site # 18217					X	X	X	X
Brisbane Laboratory - NATA Site # 20794								
External Laboratory								
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**				
FC80 0.8-1.0	Jan 08, 2014		TCLP	S14-Ja07092	X	X	X	X

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/L	< 0.001			0.001	Pass	
Acenaphthylene	mg/L	< 0.001			0.001	Pass	
Anthracene	mg/L	< 0.001			0.001	Pass	
Benz(a)anthracene	mg/L	< 0.001			0.001	Pass	
Benzo(a)pyrene	mg/L	< 0.001			0.001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.001			0.001	Pass	
Benzo(g.h.i)perylene	mg/L	< 0.001			0.001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.001			0.001	Pass	
Chrysene	mg/L	< 0.001			0.001	Pass	
Dibenz(a.h)anthracene	mg/L	< 0.001			0.001	Pass	
Fluoranthene	mg/L	< 0.001			0.001	Pass	
Fluorene	mg/L	< 0.001			0.001	Pass	
Indeno(1.2.3-cd)pyrene	mg/L	< 0.001			0.001	Pass	
Naphthalene	mg/L	< 0.001			0.001	Pass	
Phenanthrene	mg/L	< 0.001			0.001	Pass	
Pyrene	mg/L	< 0.001			0.001	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.01			0.01	Pass	
Cadmium	mg/L	< 0.005			0.005	Pass	
Chromium	mg/L	< 0.05			0.05	Pass	
Copper	mg/L	< 0.05			0.05	Pass	
Lead	mg/L	< 0.01			0.01	Pass	
Mercury	mg/L	< 0.001			0.001	Pass	
Nickel	mg/L	< 0.05			0.05	Pass	
Zinc	mg/L	< 0.05			0.05	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S14-Ja04492	NCP	%	109			70-130	Pass	
Cadmium	S14-Ja04492	NCP	%	107			70-130	Pass	
Chromium	S14-Ja04492	NCP	%	106			70-130	Pass	
Copper	S14-Ja04492	NCP	%	100			70-130	Pass	
Lead	S14-Ja04492	NCP	%	96			70-130	Pass	
Mercury	S14-Ja04492	NCP	%	97			70-130	Pass	
Nickel	S14-Ja04492	NCP	%	100			70-130	Pass	
Zinc	S14-Ja04492	NCP	%	103			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S14-Ja04491	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Cadmium	S14-Ja04491	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Chromium	S14-Ja04491	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Copper	S14-Ja04491	NCP	mg/L	0.14	0.14	5.0	30%	Pass	
Lead	S14-Ja04491	NCP	mg/L	0.010	< 0.01	4.0	30%	Pass	
Mercury	S14-Ja04491	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Nickel	S14-Ja04491	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Zinc	S14-Ja04491	NCP	mg/L	0.16	0.16	4.0	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
C01	Leachate Fluid Key: 1 - pH 5.0, 2 - pH 2.9, 3 - pH 9.2, 4 - Reagent (DI) water, 5 - Client sample, 6 - other
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs

Authorised By

Jean Heng	Client Services
James Norford	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)

Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

Eurofins | mgt shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins | mgt be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

-----Original Message-----
From: Nathan Cussen [mailto:NCussen@jbsg.com.au]
Sent: Thursday, 16 January 2014 4:50 PM
To: Jean Heng
Subject: RE: Eurofins | mgt Test Results - Report 405447 : Site GREEN SQUARE BLOCK 8D 43182

Hi Jean,

Can I please schedule sample FC80 0.8-1.0 for heavy metal and PAH TCLP analysis (lab batch 405447) on a STD TAT.

Regards,
Nathan

#405872

-----Original Message-----
From: JeanHeng@eurofins.com.au [mailto:JeanHeng@eurofins.com.au]
Sent: Thursday, 16 January 2014 12:38 PM
To: Nathan Cussen
Subject: Eurofins | mgt Test Results - Report 405447 : Site GREEN SQUARE BLOCK 8D 43182

Hi,

Please find results for your project detailed in the subject header.

Did you know we have recently become NATA accredited for PFOS/PFOA and Glyphosate? To find out more click here;

http://www.eurofins.com.au/media/8764325/environote_1038_-_glyphosate_and_pfcs.pdf

Kind regards,

Jean Heng
Client Manager | NSW
JeanHeng@eurofins.com.au

Eurofins | mgt
Unit F6, Building F
16 Mars Road
Lane Cove West, NSW 2066

DL:(+61) (2) 9900 8460
M: 0403 637 214

Website: http://www.eurofins.com.au

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NATA # 1261 Site # 20794

Sample Receipt Advice

Company name: **JBS & G (NSW & WA) Pty Ltd**

Contact name: Nathan Cussen
Client job number: GREEN SQUARE BLOCK 8D 43182
COC number: Not provided
Turn around time: 5 Day
Date/Time received: Jan 15, 2014 3:45 PM
Eurofins | mgt reference: **405750**

Sample information

☑ A detailed list of analytes logged into our LIMS, is included in the attached summary table.

☑ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt Sample Receipt : 11 degrees Celsius.

☑ All samples have been received as described on the above COC.

☑ COC has been completed correctly.

☑ Attempt to chill was evident.

☑ Appropriately preserved sample containers have been used.

☑ All samples were received in good condition.

☑ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.

☑ Organic samples had Teflon liners.

☒ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Contact notes

If you have any questions with respect to these samples please contact:

Jean Heng on Phone : (+61) (2) 9900 8400 or by e.mail: JeanHeng@eurofins.com.au

Results will be delivered electronically via e.mail to Nathan Cussen - ncussen@jbsg.com.au.

Eurofins | mgt Sample Receipt

ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

Melbourne
3-5 Kingston Town Close
Oakleigh VIC 3166
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F6, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: GREEN SQUARE BLOCK 8D 43182

Order No.:
Report #: 405750
Phone: 02 8245 0300
Fax:

Received: Jan 15, 2014 3:45 PM
Due: Jan 22, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Polycyclic Aromatic Hydrocarbons	Metals M8	Total Recoverable Hydrocarbons
Laboratory where analysis is conducted								
Melbourne Laboratory - NATA Site # 1254 & 14271								
Sydney Laboratory - NATA Site # 18217					X	X	X	X
Brisbane Laboratory - NATA Site # 20794								
External Laboratory								
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**				
FC077 2.0-2.2	Jan 13, 2014		Soil	S14-Ja06201	X	X	X	X

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Certificate of Analysis

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention: **Nathan Cussen**

Report **405750-S**
Client Reference GREEN SQUARE BLOCK 8D 43182
Received Date Jan 15, 2014

Client Sample ID			**FC077 2.0-2.2**
Sample Matrix			**Soil**
Eurofins | mgt Sample No.			**S14-Ja06201**
Date Sampled			**Jan 13, 2014**
Test/Reference	LOR	Unit	
Total Recoverable Hydrocarbons - 1999 NEPM Fractions			
TRH C6-C9	20	mg/kg	< 20
TRH C10-C14	20	mg/kg	< 20
TRH C15-C28	50	mg/kg	89
TRH C29-C36	50	mg/kg	100
TRH C10-36 (Total)	50	mg/kg	190
Total Recoverable Hydrocarbons - 2013 NEPM Fractions			
Naphthalene[N02]	0.5	mg/kg	< 0.5
TRH C6-C10	20	mg/kg	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20
TRH >C10-C16	50	mg/kg	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50
TRH >C16-C34	100	mg/kg	160
TRH >C34-C40	100	mg/kg	< 100
Polycyclic Aromatic Hydrocarbons			
Acenaphthene	0.5	mg/kg	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5
Anthracene	0.5	mg/kg	< 0.5
Benz(a)anthracene	0.5	mg/kg	1.0
Benzo(a)pyrene	0.5	mg/kg	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	0.8
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5
Chrysene	0.5	mg/kg	1.0
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5
Fluoranthene	0.5	mg/kg	1.8
Fluorene	0.5	mg/kg	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5
Naphthalene	0.5	mg/kg	< 0.5
Phenanthrene	0.5	mg/kg	3.1
Pyrene	0.5	mg/kg	1.1
Total PAH	0.5	mg/kg	8.8
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	< 0.5
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	0.7
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	1.3
2-Fluorobiphenyl (surr.)	1	%	92
p-Terphenyl-d14 (surr.)	1	%	102

Client Sample ID			FC077 2.0-2.2
Sample Matrix			**Soil**
Eurofins | mgt Sample No.			**S14-Ja06201**
Date Sampled			**Jan 13, 2014**
Test/Reference	LOR	Unit	
Heavy Metals			
Arsenic	2	mg/kg	2.8
Cadmium	0.4	mg/kg	0.5
Chromium	5	mg/kg	< 5
Copper	5	mg/kg	53
Lead	5	mg/kg	36
Mercury	0.05	mg/kg	0.11
Nickel	5	mg/kg	< 5
Zinc	5	mg/kg	110
% Moisture	0.1	%	15

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Jan 17, 2014	14 Day
- Method: E004 Petroleum Hydrocarbons (TPH)			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jan 17, 2014	14 Day
- Method: LM-LTM-ORG2010			
Polycyclic Aromatic Hydrocarbons	Sydney	Jan 17, 2014	14 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Metals M8	Sydney	Jan 17, 2014	28 Day
- Method: E022 Acid Extractable metals in Soils & E026 Mercury			
% Moisture	Sydney	Jan 17, 2014	28 Day
- Method: E005 Moisture Content			

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ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

Melbourne
3-5 Kingston Town Close
Oakleigh VIC 3166
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name:	JBS & G (NSW & WA) Pty Ltd	**Order No.:**		**Received:**	Jan 15, 2014 3:45 PM
Address:	Level 1, 50 Margaret St Sydney NSW 2000	**Report #:**	405750	**Due:**	Jan 22, 2014
		Phone:	02 8245 0300	**Priority:**	5 Day
		Fax:		**Contact Name:**	Nathan Cussen
Client Job No.:	GREEN SQUARE BLOCK 8D 43182				

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Polycyclic Aromatic Hydrocarbons	Metals M8	Total Recoverable Hydrocarbons
Laboratory where analysis is conducted								
Melbourne Laboratory - NATA Site # 1254 & 14271								
Sydney Laboratory - NATA Site # 18217					X	X	X	X
Brisbane Laboratory - NATA Site # 20794								
External Laboratory								
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**				
FC077 2.0-2.2	Jan 13, 2014		Soil	S14-Ja06201	X	X	X	X

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

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Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH C6-C10 less BTEX (F1)	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.05			0.05	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	94			70-130	Pass	
TRH C10-C14	%	76			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	98			70-130	Pass	
TRH C6-C10	%	95			70-130	Pass	
TRH >C10-C16	%	81			70-130	Pass	
LCS - % Recovery							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	117			70-130	Pass	
Acenaphthylene	%	116			70-130	Pass	
Anthracene	%	110			70-130	Pass	
Benz(a)anthracene	%	112			70-130	Pass	
Benzo(a)pyrene	%	122			70-130	Pass	
Benzo(b&j)fluoranthene	%	105			70-130	Pass	
Benzo(g.h.i)perylene	%	125			70-130	Pass	
Benzo(k)fluoranthene	%	122			70-130	Pass	
Chrysene	%	120			70-130	Pass	
Dibenz(a.h)anthracene	%	122			70-130	Pass	
Fluoranthene	%	118			70-130	Pass	
Fluorene	%	111			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	123			70-130	Pass	
Naphthalene	%	114			70-130	Pass	
Phenanthrene	%	109			70-130	Pass	
Pyrene	%	108			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	79			70-130	Pass	
Cadmium	%	77			70-130	Pass	
Chromium	%	82			70-130	Pass	
Copper	%	82			70-130	Pass	
Lead	%	82			70-130	Pass	
Mercury	%	111			70-130	Pass	
Nickel	%	86			70-130	Pass	
Zinc	%	89			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S14-Ja06185	NCP	%	86			70-130	Pass	
TRH C10-C14	S14-Ja06185	NCP	%	79			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S14-Ja05802	NCP	%	71			70-130	Pass	
TRH C6-C10	S14-Ja06185	NCP	%	85			70-130	Pass	
TRH >C10-C16	S14-Ja06185	NCP	%	86			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S14-Ja06447	NCP	%	126			70-130	Pass	
Acenaphthylene	S14-Ja06447	NCP	%	114			70-130	Pass	
Anthracene	S14-Ja06447	NCP	%	123			70-130	Pass	
Benz(a)anthracene	S14-Ja06447	NCP	%	122			70-130	Pass	
Benzo(a)pyrene	S14-Ja06447	NCP	%	130			70-130	Pass	
Benzo(b&j)fluoranthene	S14-Ja06447	NCP	%	99			70-130	Pass	
Benzo(g.h.i)perylene	S14-Ja06447	NCP	%	129			70-130	Pass	
Benzo(k)fluoranthene	S14-Ja06447	NCP	%	124			70-130	Pass	
Chrysene	S14-Ja06447	NCP	%	121			70-130	Pass	
Dibenz(a.h)anthracene	S14-Ja06447	NCP	%	126			70-130	Pass	
Fluoranthene	S14-Ja06447	NCP	%	129			70-130	Pass	
Fluorene	S14-Ja06447	NCP	%	129			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja06447	NCP	%	127			70-130	Pass	
Naphthalene	S14-Ja06447	NCP	%	125			70-130	Pass	
Phenanthrene	S14-Ja06447	NCP	%	130			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Pyrene	S14-Ja06447	NCP	%	129			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S14-Ja05820	NCP	%	85			70-130	Pass	
Cadmium	S14-Ja05820	NCP	%	79			70-130	Pass	
Chromium	S14-Ja05820	NCP	%	88			70-130	Pass	
Copper	S14-Ja05820	NCP	%	90			70-130	Pass	
Lead	S14-Ja05802	NCP	%	88			70-130	Pass	
Mercury	S14-Ja05820	NCP	%	115			70-130	Pass	
Nickel	S14-Ja05820	NCP	%	88			70-130	Pass	
Zinc	S14-Ja04828	NCP	%	121			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S14-Ja06185	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S14-Ja06185	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S14-Ja06185	NCP	mg/kg	75	98	26	30%	Pass	
TRH C29-C36	S14-Ja06185	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S14-Ja05802	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S14-Ja06185	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S14-Ja06185	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S14-Ja06185	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S14-Ja06185	NCP	mg/kg	< 100	120	32	30%	Fail	Q15
TRH >C34-C40	S14-Ja06185	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S14-Ja06447	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S14-Ja06447	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S14-Ja06447	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S14-Ja06447	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S14-Ja06447	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S14-Ja06447	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S14-Ja06447	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S14-Ja06447	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S14-Ja06447	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S14-Ja06447	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S14-Ja06447	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S14-Ja06447	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja06447	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S14-Ja06447	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S14-Ja06447	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S14-Ja06447	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S14-Ja05820	NCP	mg/kg	< 2	< 2	<1	30%	Pass	
Cadmium	S14-Ja05820	NCP	mg/kg	0.40	< 0.4	37	30%	Fail	Q15
Chromium	S14-Ja05820	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	S14-Ja05820	NCP	mg/kg	97	89	10	30%	Pass	
Lead	S14-Ja05820	NCP	mg/kg	91	120	29	30%	Pass	
Mercury	S14-Ja05820	NCP	mg/kg	0.36	0.33	10	30%	Pass	
Nickel	S14-Ja03462	NCP	mg/kg	7.3	6.3	14	30%	Pass	
Zinc	S14-Ja05820	NCP	mg/kg	230	190	21	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q15	The RPD reported passes Eurofins | mgt's Acceptance Criteria as stipulated in SOP 05. Refer to Glossary Page of this report for further details

Authorised By

Jean Heng	Client Services
James Norford	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)
Ryan Hamilton	Senior Analyst-Volatile (NSW)

Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

Eurofins | mgt shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins | mgt be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

eurofins | mgt
Unit F3-F6 Building F, Parkview Building
16 Mars Road, Lane Cove West
NSW 2066

Page 1 of 1

*405750

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 43192
PROJECT NAME: Green Square Block 80
SEND REPORT TO: N Cuskelly SEND INVOICE TO: C Mag
DATE NEEDED BY: STD TAT

LABORATORY BATCH NO.:
SAMPLERS: NC
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: NCuskelly@jbsg.com.au

QC LEVEL: NEPM (2013)

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	JB1	JB1T	JB1A	JB2	JB2A	B10	JB2/JBL	JB3/JBL	JB4	JBL	Asbestos	8 Metals	TRH	PAH	NOTES:
FC077 2.0-2.3	soil	13.1.14		Ice + Ice													X	X	X	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Nathan DATE: 14.1.14 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C
NAME: DATE: OF:	CONSIGNMENT NOTE NO. TRANSPORT CO	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - eurofins mgt

JB1 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1T - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos
JB2 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
B10 - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2/JBL - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)
JB3/JBL - TRH/BTEX/PAH/OCP/OPP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)/Asbestos
JB4 - TRH/BTEX/VOC
JBL - TCLP(PAH & 6 Metals)

RECEIVED
15 JAN 2014
BY: Sean D. 3:45

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ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

Melbourne
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Oakleigh Vic 3166
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Sample Receipt Advice

Company name: **JBS & G (NSW & WA) Pty Ltd**

Contact name: Nathan Cussen
Client job number: GREEN SQUARE BLOCK 8D 43182
COC number: Not provided
Turn around time: 5 Day
Date/Time received: Jan 13, 2014 5:00 PM
Eurofins | mgt reference: **405447**

Sample information

☑ A detailed list of analytes logged into our LIMS, is included in the attached summary table.

☑ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt Sample Receipt : 7 degrees Celsius.

☑ All samples have been received as described on the above COC.

☑ COC has been completed correctly.

☑ Attempt to chill was evident.

☑ Appropriately preserved sample containers have been used.

☑ All samples were received in good condition.

☑ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.

☑ Organic samples had Teflon liners.

☒ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Contact notes

If you have any questions with respect to these samples please contact:

Jean Heng on Phone : (+61) (2) 9900 8400 or by e.mail: JeanHeng@eurofins.com.au

Results will be delivered electronically via e.mail to Nathan Cussen - ncussen@jbsg.com.au.

Eurofins | mgt Sample Receipt

ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

Melbourne
3-5 Kingston Town Close
Oakleigh VIC 3166
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Site # 1254 & 14271

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NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: GREEN SQUARE BLOCK 8D 43182

Order No.:
Report #: 405447
Phone: 02 8245 0300
Fax:

Received: Jan 13, 2014 5:00 PM
Due: Jan 21, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	Total Recoverable Hydrocarbons	JBS&G Suite 2
Laboratory where analysis is conducted										
Melbourne Laboratory - NATA Site # 1254 & 14271										
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794										
External Laboratory										
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**						
FC077 0.2-0.3	Jan 08, 2014		Soil	S14-Ja03615		X				
FC077 0.8-1.0	Jan 08, 2014		Soil	S14-Ja03616	X					X
FC077 1.0-1.2	Jan 08, 2014		Soil	S14-Ja03617	X		X	X	X	
FC080 0.2-0.3	Jan 08, 2014		Soil	S14-Ja03618	X					X
FC080 0.80-1.0	Jan 08, 2014		Soil	S14-Ja03619	X		X	X	X	

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Certificate of Analysis

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Nathan Cussen**

Report **405447-S**
Client Reference GREEN SQUARE BLOCK 8D 43182
Received Date Jan 13, 2014

Client Sample ID **Sample Matrix** **Eurofins | mgt Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**FC077 0.8-1.0** **Soil** **S14-Ja03616** **Jan 08, 2014**	**FC077 1.0-1.2** **Soil** **S14-Ja03617** **Jan 08, 2014**	**FC080 0.2-0.3** **Soil** **S14-Ja03618** **Jan 08, 2014**	**FC080 0.8-1.0** **Soil** **S14-Ja03619** **Jan 08, 2014**
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	56
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-36 (Total)	50	mg/kg	< 50	< 50	< 50	56
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	-
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	-
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	-
Xylenes - Total	0.3	mg/kg	< 0.3	-	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	128	-	115	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	1.2	1.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	0.8	1.3	1.6
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	1.0	0.9
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	0.9	1.0
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	1.3	1.7
Chrysene	0.5	mg/kg	< 0.5	< 0.5	1.1	1.4
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	1.8	2.6
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	0.7	0.8
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC077 0.8-1.0 Soil S14-Ja03616 Jan 08, 2014	FC077 1.0-1.2 Soil S14-Ja03617 Jan 08, 2014	FC080 0.2-0.3 Soil S14-Ja03618 Jan 08, 2014	FC080 0.8-1.0 Soil S14-Ja03619 Jan 08, 2014
Polycyclic Aromatic Hydrocarbons						
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	0.6	1.2
Pyrene	0.5	mg/kg	< 0.5	< 0.5	1.9	2.7
Total PAH	0.5	mg/kg	< 0.5	0.8	12	15
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	< 0.5	0.8	1.7	2.1
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	0.6	1.1	2.0	2.3
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	1.2	1.5	2.2	2.6
2-Fluorobiphenyl (surr.)	1	%	93	87	87	85
p-Terphenyl-d14 (surr.)	1	%	110	99	100	99
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	< 0.1	-
4.4'-DDD	0.05	mg/kg	< 0.05	-	< 0.05	-
4.4'-DDE	0.05	mg/kg	< 0.05	-	< 0.05	-
4.4'-DDT	0.05	mg/kg	< 0.05	-	< 0.05	-
a-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
Aldrin	0.05	mg/kg	< 0.05	-	< 0.05	-
b-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
d-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
Dieldrin	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan I	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan II	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin ketone	0.05	mg/kg	< 0.05	-	< 0.05	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	< 0.05	-
Heptachlor	0.05	mg/kg	< 0.05	-	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	< 0.05	-
Methoxychlor	0.2	mg/kg	< 0.2	-	< 0.2	-
Toxaphene	1	mg/kg	< 1	-	< 1	-
Dibutylchlorendate (surr.)	1	%	117	-	91	-
Tetrachloro-m-xylene (surr.)	1	%	89	-	72	-
Polychlorinated Biphenyls (PCB)						
Aroclor-1016	0.5	mg/kg	< 0.5	-	< 0.5	-
Aroclor-1232	0.5	mg/kg	< 0.5	-	< 0.5	-
Aroclor-1242	0.5	mg/kg	< 0.5	-	< 0.5	-
Aroclor-1248	0.5	mg/kg	< 0.5	-	< 0.5	-
Aroclor-1254	0.5	mg/kg	< 0.5	-	< 0.5	-
Aroclor-1260	0.5	mg/kg	< 0.5	-	< 0.5	-
Total PCB	0.5	mg/kg	< 0.5	-	< 0.5	-
Dibutylchlorendate (surr.)	1	%	117	-	91	-
Heavy Metals						
Arsenic	2	mg/kg	6.0	< 2	9.0	7.4
Cadmium	0.4	mg/kg	0.4	< 0.4	0.6	0.6
Chromium	5	mg/kg	8.9	< 5	13	11
Copper	5	mg/kg	90	47	110	100
Lead	5	mg/kg	120	45	250	250
Mercury	0.05	mg/kg	0.17	0.10	1.0	0.35
Nickel	5	mg/kg	7.0	5.1	13	10
Zinc	5	mg/kg	200	120	320	250

Client Sample ID			FC077 0.8-1.0	FC077 1.0-1.2	FC080 0.2-0.3	FC080 0.8-1.0
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**S14-Ja03616**	**S14-Ja03617**	**S14-Ja03618**	**S14-Ja03619**
Date Sampled			**Jan 08, 2014**	**Jan 08, 2014**	**Jan 08, 2014**	**Jan 08, 2014**
Test/Reference	LOR	Unit				
% Moisture	0.1	%	22	27	17	17

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Jan 14, 2014	14 Day
- Method: E004 Petroleum Hydrocarbons (TPH)			
BTEX	Sydney	Jan 14, 2014	14 Day
- Method: E029/E016 BTEX			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jan 14, 2014	14 Day
- Method: LM-LTM-ORG2010			
Polycyclic Aromatic Hydrocarbons	Sydney	Jan 14, 2014	14 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Organochlorine Pesticides	Sydney	Jan 14, 2014	14 Day
- Method: E013 Organochlorine Pesticides (OC)			
Polychlorinated Biphenyls (PCB)	Sydney	Jan 14, 2014	28 Day
- Method: E013 Polychlorinated Biphenyls (PCB)			
Metals M8	Sydney	Jan 14, 2014	28 Day
- Method: E022 Acid Extractable metals in Soils & E026 Mercury			
% Moisture	Sydney	Jan 14, 2014	28 Day
- Method: E005 Moisture Content			

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NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: GREEN SQUARE BLOCK 8D 43182

Order No.:
Report #: 405447
Phone: 02 8245 0300
Fax:

Received: Jan 13, 2014 5:00 PM
Due: Jan 21, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	Total Recoverable Hydrocarbons	JBS&G Suite 2
Laboratory where analysis is conducted										
Melbourne Laboratory - NATA Site # 1254 & 14271										
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794										
External Laboratory										
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**						
FC077 0.2-0.3	Jan 08, 2014		Soil	S14-Ja03615		X				
FC077 0.8-1.0	Jan 08, 2014		Soil	S14-Ja03616	X					X
FC077 1.0-1.2	Jan 08, 2014		Soil	S14-Ja03617	X		X	X	X	
FC080 0.2-0.3	Jan 08, 2014		Soil	S14-Ja03618	X					X
FC080 0.80-1.0	Jan 08, 2014		Soil	S14-Ja03619	X		X	X	X	

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH C6-C10 less BTEX (F1)	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-BHC	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-BHC	mg/kg	< 0.05			0.05	Pass	
d-BHC	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-BHC (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.2			0.2	Pass	
Toxaphene	mg/kg	< 1			1	Pass	
Method Blank							
Polychlorinated Biphenyls (PCB)							
Aroclor-1016	mg/kg	< 0.5			0.5	Pass	
Aroclor-1232	mg/kg	< 0.5			0.5	Pass	
Aroclor-1242	mg/kg	< 0.5			0.5	Pass	
Aroclor-1248	mg/kg	< 0.5			0.5	Pass	
Aroclor-1254	mg/kg	< 0.5			0.5	Pass	
Aroclor-1260	mg/kg	< 0.5			0.5	Pass	
Total PCB	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	92			70-130	Pass	
TRH C10-C14	%	81			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	101			70-130	Pass	
Toluene	%	96			70-130	Pass	
Ethylbenzene	%	95			70-130	Pass	
m&p-Xylenes	%	95			70-130	Pass	
o-Xylene	%	105			70-130	Pass	
Xylenes - Total	%	98			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	110			70-130	Pass	
TRH C6-C10	%	92			70-130	Pass	
TRH >C10-C16	%	88			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	123			70-130	Pass	
Acenaphthylene	%	111			70-130	Pass	
Anthracene	%	124			70-130	Pass	
Benz(a)anthracene	%	120			70-130	Pass	
Benzo(a)pyrene	%	109			70-130	Pass	
Benzo(b&j)fluoranthene	%	111			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Benzo(g.h.i)perylene	%	96			70-130	Pass	
Benzo(k)fluoranthene	%	119			70-130	Pass	
Chrysene	%	121			70-130	Pass	
Dibenz(a.h)anthracene	%	89			70-130	Pass	
Fluoranthene	%	121			70-130	Pass	
Fluorene	%	124			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	93			70-130	Pass	
Naphthalene	%	122			70-130	Pass	
Phenanthrene	%	113			70-130	Pass	
Pyrene	%	118			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	99			70-130	Pass	
4.4'-DDD	%	107			70-130	Pass	
4.4'-DDE	%	94			70-130	Pass	
4.4'-DDT	%	101			70-130	Pass	
a-BHC	%	99			70-130	Pass	
Aldrin	%	102			70-130	Pass	
b-BHC	%	108			70-130	Pass	
d-BHC	%	102			70-130	Pass	
Dieldrin	%	100			70-130	Pass	
Endosulfan I	%	102			70-130	Pass	
Endosulfan II	%	103			70-130	Pass	
Endosulfan sulphate	%	107			70-130	Pass	
Endrin	%	98			70-130	Pass	
Endrin aldehyde	%	99			70-130	Pass	
Endrin ketone	%	103			70-130	Pass	
g-BHC (Lindane)	%	99			70-130	Pass	
Heptachlor	%	95			70-130	Pass	
Heptachlor epoxide	%	99			70-130	Pass	
Hexachlorobenzene	%	84			70-130	Pass	
Methoxychlor	%	101			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls (PCB)							
Aroclor-1260	%	84			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	89			70-130	Pass	
Cadmium	%	88			70-130	Pass	
Chromium	%	94			70-130	Pass	
Copper	%	99			70-130	Pass	
Lead	%	93			70-130	Pass	
Nickel	%	97			70-130	Pass	
Zinc	%	102			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S14-Ja03581	NCP	%	87			70-130	Pass	
TRH C10-C14	S14-Ja02492	NCP	%	83			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S14-Ja03581	NCP	%	100			70-130	Pass	
Toluene	S14-Ja03581	NCP	%	95			70-130	Pass	
Ethylbenzene	S14-Ja03581	NCP	%	95			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
m&p-Xylenes	S14-Ja03581	NCP	%	97			70-130	Pass	
o-Xylene	S14-Ja03581	NCP	%	106			70-130	Pass	
Xylenes - Total	S14-Ja03581	NCP	%	100			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S14-Ja03581	NCP	%	94			70-130	Pass	
TRH C6-C10	S14-Ja03581	NCP	%	97			70-130	Pass	
TRH >C10-C16	S14-Ja02492	NCP	%	90			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S14-Ja02237	NCP	%	114			70-130	Pass	
Acenaphthylene	S14-Ja02237	NCP	%	99			70-130	Pass	
Anthracene	S14-Ja02237	NCP	%	111			70-130	Pass	
Benz(a)anthracene	S14-Ja02237	NCP	%	113			70-130	Pass	
Benzo(a)pyrene	S14-Ja02237	NCP	%	102			70-130	Pass	
Benzo(b&j)fluoranthene	S14-Ja02237	NCP	%	102			70-130	Pass	
Benzo(g.h.i)perylene	S14-Ja02237	NCP	%	94			70-130	Pass	
Benzo(k)fluoranthene	S14-Ja02237	NCP	%	111			70-130	Pass	
Chrysene	S14-Ja02237	NCP	%	111			70-130	Pass	
Dibenz(a.h)anthracene	S14-Ja02237	NCP	%	85			70-130	Pass	
Fluoranthene	S14-Ja02237	NCP	%	110			70-130	Pass	
Fluorene	S14-Ja02237	NCP	%	111			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja02237	NCP	%	87			70-130	Pass	
Naphthalene	S14-Ja02237	NCP	%	106			70-130	Pass	
Phenanthrene	S14-Ja02237	NCP	%	106			70-130	Pass	
Pyrene	S14-Ja02237	NCP	%	109			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S14-Ja03616	CP	%	104			70-130	Pass	
4.4'-DDD	S14-Ja03616	CP	%	121			70-130	Pass	
4.4'-DDE	S14-Ja03616	CP	%	110			70-130	Pass	
4.4'-DDT	S14-Ja03616	CP	%	91			70-130	Pass	
a-BHC	S14-Ja03616	CP	%	113			70-130	Pass	
Aldrin	S14-Ja03616	CP	%	109			70-130	Pass	
b-BHC	S14-Ja03616	CP	%	122			70-130	Pass	
d-BHC	S14-Ja03616	CP	%	122			70-130	Pass	
Dieldrin	S14-Ja03616	CP	%	109			70-130	Pass	
Endosulfan I	S14-Ja03616	CP	%	111			70-130	Pass	
Endosulfan II	S14-Ja03616	CP	%	101			70-130	Pass	
Endosulfan sulphate	S14-Ja03616	CP	%	101			70-130	Pass	
Endrin	S14-Ja03616	CP	%	105			70-130	Pass	
Endrin aldehyde	S14-Ja03616	CP	%	89			70-130	Pass	
Endrin ketone	S14-Ja03616	CP	%	98			70-130	Pass	
g-BHC (Lindane)	S14-Ja03616	CP	%	111			70-130	Pass	
Heptachlor	S14-Ja03616	CP	%	109			70-130	Pass	
Heptachlor epoxide	S14-Ja03616	CP	%	104			70-130	Pass	
Hexachlorobenzene	S14-Ja03616	CP	%	122			70-130	Pass	
Methoxychlor	S14-Ja03616	CP	%	101			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S14-Ja03678	NCP	%	97			70-130	Pass	
Cadmium	S14-Ja03678	NCP	%	97			70-130	Pass	
Chromium	S14-Ja03678	NCP	%	107			70-130	Pass	
Copper	S14-Ja03581	NCP	%	127			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Lead	S14-Ja03581	NCP	%	75			70-130	Pass	
Mercury	S14-Ja03598	NCP	%	79			70-130	Pass	
Nickel	S14-Ja03678	NCP	%	104			70-130	Pass	
Zinc	S14-Ja03678	NCP	%	73			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S14-Ja03581	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S14-Ja03299	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S14-Ja03299	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S14-Ja03299	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S14-Ja03581	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S14-Ja03581	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S14-Ja03581	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S14-Ja03581	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S14-Ja03581	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total	S14-Ja03581	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S14-Ja03581	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S14-Ja03581	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S14-Ja03581	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S14-Ja03299	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S14-Ja03299	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S14-Ja03299	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S14-Ja02237	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S14-Ja02237	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S14-Ja02237	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S14-Ja02237	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S14-Ja02237	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S14-Ja02237	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S14-Ja02237	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S14-Ja02237	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S14-Ja02237	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S14-Ja02237	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S14-Ja02237	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S14-Ja02237	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja02237	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S14-Ja02237	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S14-Ja02237	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S14-Ja02237	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S14-Ja03616	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S14-Ja03616	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S14-Ja03616	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S14-Ja03616	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	S14-Ja03616	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S14-Ja03616	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	S14-Ja03616	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	

Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
d-BHC	S14-Ja03616	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S14-Ja03616	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S14-Ja03616	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S14-Ja03616	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S14-Ja03616	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S14-Ja03616	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S14-Ja03616	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S14-Ja03616	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	S14-Ja03616	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S14-Ja03616	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S14-Ja03616	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S14-Ja03616	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S14-Ja03616	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Toxaphene	S14-Ja03616	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls (PCB)				Result 1	Result 2	RPD			
Aroclor-1016	S14-Ja03616	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1232	S14-Ja03616	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1242	S14-Ja03616	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1248	S14-Ja03616	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1254	S14-Ja03616	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1260	S14-Ja03616	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S14-Ja03678	NCP	mg/kg	4.3	5.0	15	30%	Pass	
Cadmium	S14-Ja03678	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S14-Ja03678	NCP	mg/kg	21	34	48	30%	Fail	Q15
Copper	S14-Ja03678	NCP	mg/kg	38	50	28	30%	Pass	
Lead	S14-Ja03678	NCP	mg/kg	43	45	5.0	30%	Pass	
Mercury	S14-Ja03598	NCP	mg/kg	< 0.05	0.11	88	30%	Fail	Q15
Nickel	S14-Ja03678	NCP	mg/kg	33	46	35	30%	Fail	Q15
Zinc	S14-Ja03678	NCP	mg/kg	90	120	26	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q15	The RPD reported passes Eurofins | mgt's Acceptance Criteria as stipulated in SOP 05. Refer to Glossary Page of this report for further details

Authorised By

Jean Heng	Client Services
James Norford	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)
Ryan Hamilton	Senior Analyst-Volatile (NSW)

Dr. Bob Symons
Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

Eurofins | mgt shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins | mgt be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

eurofins | mgt
Unit F3-F6 Building F, Parkview Building
16 Mars Road, Lane Cove West
NSW 2066

CHAIN OF CUSTODY

#405447

PROJECT NO.: 43182
PROJECT NAME: Green Square Block 8D
SEND REPORT TO: NJ Cumpston SEND INVOICE TO: C NJ
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: [redacted] Chris D
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: ncumpston@jbsg.com.au
QC LEVEL: NEPM (2013)

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	JB1	JB1T	JB1A	JB2	JB2A	B10	JB2/JBL	JB3/JBL	JB4	JBL	Metals	TRH	PAH	NOTES:
FC077 0.2-0.3	soil	8/1/14		Sc + Ice															
FC077 0.8-1.0									X										
FC077 1.0-1.2																X	X	X	
FC080 0.2-0.3									X										
FC080 0.8-1.0																X	X	X	

RELINQUISHED BY:
NAME: Nathan DATE: 30/1/14
OF: JBS&G
NAME: DATE:
OF:

METHOD OF SHIPMENT:
CONSIGNMENT NOTE NO.
TRANSPORT CO.
CONSIGNMENT NOTE NO.
TRANSPORT CO

RECEIVED BY:
NAME: Ellen Wu DATE: 30/1/14
OF: Eurofins 1700
NAME: DATE:
OF:

FOR RECEIVING LAB USE ONLY:
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - eurofins mgt

JB1 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1T - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos
JB2 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
B10 - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2/JBL - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)
JB3/JBL - TRH/BTEX/PAH/OCP/OPP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)/Asbestos
JB4 - TRH/0TEX/VOC
JBL - TCLP(PAH & 6 Metals)

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

SAMPLE RECEIPT ADVICE

Client:

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney NSW 2000

ph: 02 8245 0300
Fax: 02 8245 0399

Attention: Joanne Rosner, Nathan Cussen

Sample log in details:

Your reference:	**43182, Green Square Block 8D**
Envirolab Reference:	**103548**
Date received:	15/01/14
Date results expected to be reported:	**22/01/14**

Samples received in appropriate condition for analysis:	YES
No. of samples provided	1 soil
Turnaround time requested:	Standard
Temperature on receipt (°C)	NA
Cooling Method:	None
Sampling Date Provided:	YES

Comments:

Samples will be held for 1 month for water samples and 2 months for soil samples from date of receipt of samples.

Contact details:

Please direct any queries to Aileen Hie or Jacinta Hurst
ph: 02 9910 6200 fax: 02 9910 6201
email: ahie@envirolabservices.com.au or jhurst@envirolabservices.com.au

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

CERTIFICATE OF ANALYSIS 103548

Client:

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention: Joanne Rosner, Nathan Cussen

Sample log in details:

Your Reference:	**43182, Green Square Block 8D**		
No. of samples:	1 soil		
Date samples received / completed instructions received	15/01/14	/	15/01/14

Analysis Details:

Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by: / Issue Date:	22/01/14	/	22/01/14
Date of Preliminary Report:	Not Issued		

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Accredited for compliance with ISO/IEC 17025. **Tests not covered by NATA are denoted with *.**

Results Approved By:

Jacinta Hurst
Laboratory Manager

Asbestos ID - soils WA		
Our Reference:	UNITS	103548-1
Your Reference	----------	FC077
Depth	----------	2.0-2.2
Date Sampled		13/01/2014
Type of sample		soil
Date analysed	-	22/01/2014
Sample mass tested	g	671.15g
Sample Description	-	Dark grey clay soil clay soil
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected

Method ID	Methodology Summary
ASB-003	Asbestos ID - Minimum 500mL soil sample was analysed as recommended by "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.1g/kg as per AS4964-2004.

Report Comments:

This report is consistent with the analytical procedures and reporting recommendations in the Western Australian Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009.

Asbestos ID was analysed by Approved Identifier:	Alex Tam
Asbestos ID was authorised by Approved Signatory:	Matt Mansfield

INS: Insufficient sample for this test	PQL: Practical Quantitation Limit	NT: Not tested
NA: Test not required	RPD: Relative Percent Difference	NA: Test not required
<: Less than	>: Greater than	LCS: Laboratory Control Sample

Quality Control Definitions

Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

Duplicate: This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

Matrix Spike : A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

LCS (Laboratory Control Sample) : This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Surrogate Spike: Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.
Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.
Spikes for Physical and Aggregate Tests are not applicable.
For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.
Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for SVOC and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Envirolab Services Pty Ltd
12 Ashley Street
Chatswood
NSW 2067

Page 1 of 1

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square Block 80
SEND REPORT TO: N Cussen SEND INVOICE TO: Gr Ng
DATE NEEDED BY: STD TAT

LABORATORY BATCH NO.:
SAMPLERS: NC
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: ncussen@jbsg.com.au
QC LEVEL: NEPM (2013)

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	COMBO SUITES: SOIL - 4	SOIL – 4L	SOIL – 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER – 1m	WATER – 2L	WATER – 3L	8 Metals	TRH	PAH	Asbestos	NOTES:
1	FC077 2.0-2.2	soil	13.1.14		Bag															X	

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 103548
Date Received: 15/01
Time Received: 15:30
Received by: SW
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Nathan DATE: 14.01.14	CONSIGNMENT NOTE NO.	NAME: Sophie DATE: 15/1	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	OF: ES	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

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Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

SAMPLE RECEIPT ADVICE

Client:

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney NSW 2000

ph: 02 8245 0300
Fax: 02 8245 0399

Attention: Joanne Rosner, Nathan Cussen

Sample log in details:

Your reference:	**43182, Green Square Block 8D**
Envirolab Reference:	**103455**
Date received:	14/01/14
Date results expected to be reported:	**21/01/14**

Samples received in appropriate condition for analysis:	YES
No. of samples provided	5 soils
Turnaround time requested:	Standard
Temperature on receipt (°C)	NA
Cooling Method:	None
Sampling Date Provided:	YES

Comments:

Samples will be held for 1 month for water samples and 2 months for soil samples from date of receipt of samples.

Contact details:

Please direct any queries to Aileen Hie or Jacinta Hurst
ph: 02 9910 6200 fax: 02 9910 6201
email: ahie@envirolabservices.com.au or jhurst@envirolabservices.com.au

Envirolab Services Pty Ltd
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12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

CERTIFICATE OF ANALYSIS 103455

Client:
JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention: Joanne Rosner, Nathan Cussen

Sample log in details:

Your Reference:	**43182, Green Square Block 8D**		
No. of samples:	5 soils		
Date samples received / completed instructions received	14/01/14	/	14/01/14

Analysis Details:
Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by: / Issue Date:	21/01/14	/	17/01/14
Date of Preliminary Report:	Not Issued		

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Results Approved By:

Jacinta Hurst
Laboratory Manager

Asbestos ID - soils WA					
Our Reference:	UNITS	103455-2	103455-3	103455-4	103455-5
Your Reference	----------	FC077	FC077	FC080	FC080
Depth	----------	0.8-1.0	1.0-1.2	0.2-0.3	0.8-1.0
Date Sampled		08/01/2014	08/01/2014	08/01/2014	08/01/2014
Type of sample		soil	soil	soil	soil
Date analysed	-	16/01/2014	16/01/2014	16/01/2014	16/01/2014
Sample mass tested	g	544.48g	608.84g	581.85g	709.95g
Sample Description	-	Brown coarse-grained & rocks	Brown coarse-grained & rocks	Brown coarse-grained & rocks	Brown coarse-grained & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected

Method ID	Methodology Summary
ASB-003	Asbestos ID - Minimum 500mL soil sample was analysed as recommended by "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.1g/kg as per AS4964-2004.

Report Comments:

This report is consistent with the analytical procedures and reporting recommendations in the Western Australian Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009.

Sample 103455-2; Loose fibre bundles of chrysotile asbestos identified within the sample (total weight 0.0109g). This is 100% asbestos fibres by weight, which in 544.48g of soil is 0.02g/kg (i.e. < reporting limit for the method of 0.1g/kg).

Sample 103455-5; Loose fibre bundles of amosite asbestos identified within the sample (total weight 0.0016g). This is 100% asbestos fibres by weight, which in 709.95g of soil is 0.00g/kg (i.e. < reporting limit for the method of 0.1g/kg).

Asbestos ID was analysed by Approved Identifier:	Paul Ching
Asbestos ID was authorised by Approved Signatory:	Paul Ching

INS: Insufficient sample for this test	PQL: Practical Quantitation Limit	NT: Not tested
NA: Test not required	RPD: Relative Percent Difference	NA: Test not required
<: Less than	>: Greater than	LCS: Laboratory Control Sample

Quality Control Definitions

Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

Duplicate: This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

Matrix Spike : A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

LCS (Laboratory Control Sample) : This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Surrogate Spike: Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.
Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.
Spikes for Physical and Aggregate Tests are not applicable.
For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.
Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for SVOC and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

12 Ashley Street
Chatswood
NSW 2067

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square Block 8D
SEND REPORT TO: N Cussen SEND INVOICE TO: As NJ
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: Chris B
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: ncussen@jbs.com.au
QC LEVEL: NEPM (2013)

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	COMBO SUITES: SOIL - 4	SOIL - 4L	SOIL - 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER - 1m	WATER - 2L	WATER - 3L	Asbestos (Lab)	NOTES:
1	FC077 0.2 - 0.3	soil	9/1/14		Bag													
2	FC077 0.8 - 1.0																X	
3	FC077 1.0 - 1.2																X	
4	FC080 0.2 - 0.3																X	
5	FC080 0.8 - 1.0																X	

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 103455
Date Received: 14.1.14
Time Received: 9:20
Received by: DF
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

RELINQUISHED BY:
NAME: Nathan DATE: 10/1/14
OF: JBS&G
NAME: DATE:
OF:

METHOD OF SHIPMENT:
CONSIGNMENT NOTE NO.
TRANSPORT CO.
CONSIGNMENT NOTE NO.
TRANSPORT CO

RECEIVED BY:
NAME: Daniel Ford
DATE: 14.1.14
OF: EAS
NAME: DATE:
OF:

FOR RECEIVING LAB USE ONLY:
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Envirolab

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

eurofins | mgt

ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

Melbourne
3-5 Kingston Town Close
Oakleigh Vic 3166
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F6, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Sample Receipt Advice

Company name: **JBS & G (NSW & WA) Pty Ltd**

Contact name: Nathan Cussen
Client job number: ADDITIONAL: GREEN SQUARE BLOCK 8C 43182
COC number: Not provided
Turn around time: 5 Day
Date/Time received: Jan 20, 2014 6:15 PM
Eurofins | mgt reference: **406079**

Sample information

☑ A detailed list of analytes logged into our LIMS, is included in the attached summary table.

☑ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt Sample Receipt : 7 degrees Celsius.

☑ All samples have been received as described on the above COC.

☑ COC has been completed correctly.

☑ Attempt to chill was evident.

☑ Appropriately preserved sample containers have been used.

☑ All samples were received in good condition.

☑ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.

☑ Organic samples had Teflon liners.

☒ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Notes

Additional from 405434

Contact notes

If you have any questions with respect to these samples please contact:

Jean Heng on Phone : (+61) (2) 9900 8400 or by e.mail: JeanHeng@eurofins.com.au

Results will be delivered electronically via e.mail to Nathan Cussen - ncussen@jbsg.com.au.

Eurofins | mgt Sample Receipt

eurofins | mgt

ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

Melbourne
3-5 Kingston Town Close
Oakleigh VIC 3166
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F6, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: ADDITIONAL: GREEN SQUARE BLOCK 8C 43182

Order No.:
Report #: 406079
Phone: 02 8245 0300
Fax:

Received: Jan 20, 2014 6:15 PM
Due: Jan 29, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Lead	Polycyclic Aromatic Hydrocarbons	Toxicity Characteristic Leaching Procedure (TCLP)
Laboratory where analysis is conducted								
Melbourne Laboratory - NATA Site # 1254 & 14271								
Sydney Laboratory - NATA Site # 18217					X	X	X	X
Brisbane Laboratory - NATA Site # 20794								
External Laboratory								
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**				
FC082 0.2-0.3	Jan 08, 2014		TCLP	S14-Ja08628	X		X	X
FC097 0.2-0.3	Jan 08, 2014		TCLP	S14-Ja08629	X	X		X

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Certificate of Analysis

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Nathan Cussen**

Report **406079-L**
Client Reference ADDITIONAL: GREEN SQUARE BLOCK 8C 43182
Received Date Jan 20, 2014

Client Sample ID **Sample Matrix** **Eurofins | mgt Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**FC082 0.2-0.3** **TCLP** **S14-Ja08628** **Jan 08, 2014**	**FC097 0.2-0.3** **TCLP** **S14-Ja08629** **Jan 08, 2014**
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	0.001	mg/L	< 0.001	-
Acenaphthylene	0.001	mg/L	< 0.001	-
Anthracene	0.001	mg/L	< 0.001	-
Benz(a)anthracene	0.001	mg/L	< 0.001	-
Benzo(a)pyrene	0.001	mg/L	< 0.001	-
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	< 0.001	-
Benzo(g.h.i)perylene	0.001	mg/L	< 0.001	-
Benzo(k)fluoranthene	0.001	mg/L	< 0.001	-
Chrysene	0.001	mg/L	< 0.001	-
Dibenz(a.h)anthracene	0.001	mg/L	< 0.001	-
Fluoranthene	0.001	mg/L	< 0.001	-
Fluorene	0.001	mg/L	< 0.001	-
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001	-
Naphthalene	0.001	mg/L	0.029	-
Phenanthrene	0.001	mg/L	0.001	-
Pyrene	0.001	mg/L	< 0.001	-
Total PAH	0.002	mg/L	0.030	-
2-Fluorobiphenyl (surr.)	1	%	111	-
p-Terphenyl-d14 (surr.)	1	%	130	-
Heavy Metals				
Lead	0.01	mg/L	-	0.29
% Moisture	0.1	%	9.5	12
Toxicity Characteristic Leaching Procedure (TCLP)				
Leachate Fluid[C01]		comment	1.0	1.0
pH (TCLP - HCl addition)	0.1	units	1.5	1.5
pH (TCLP - initial)	0.1	units	7.6	4.6
pH (TCLP - off)	0.1	units	5.4	5.3

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Polycyclic Aromatic Hydrocarbons	Sydney	Jan 23, 2014	7 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Heavy Metals	Sydney	Jan 22, 2014	180 Day
- Method: E022 Acid Extractable metals in Soils			
% Moisture	Sydney	Jan 22, 2014	0 Day
- Method: E005 Moisture Content			
Toxicity Characteristic Leaching Procedure (TCLP)	Sydney	Jan 22, 2014	0 Day
- Method: E019 TCLP Preparation			

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ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

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NATA # 1261
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Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

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1/21 Smallwood Place
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NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
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NSW 2000

Client Job No.: ADDITIONAL: GREEN SQUARE BLOCK 8C 43182

Order No.:
Report #: 406079
Phone: 02 8245 0300
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Received: Jan 20, 2014 6:15 PM
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Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Lead	Polycyclic Aromatic Hydrocarbons	Toxicity Characteristic Leaching Procedure (TCLP)
Laboratory where analysis is conducted								
Melbourne Laboratory - NATA Site # 1254 & 14271								
Sydney Laboratory - NATA Site # 18217					X	X	X	X
Brisbane Laboratory - NATA Site # 20794								
External Laboratory								
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**				
FC082 0.2-0.3	Jan 08, 2014		TCLP	S14-Ja08628	X		X	X
FC097 0.2-0.3	Jan 08, 2014		TCLP	S14-Ja08629	X	X		X

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/L	< 0.001			0.001	Pass	
Acenaphthylene	mg/L	< 0.001			0.001	Pass	
Anthracene	mg/L	< 0.001			0.001	Pass	
Benz(a)anthracene	mg/L	< 0.001			0.001	Pass	
Benzo(a)pyrene	mg/L	< 0.001			0.001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.001			0.001	Pass	
Benzo(g.h.i)perylene	mg/L	< 0.001			0.001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.001			0.001	Pass	
Chrysene	mg/L	< 0.001			0.001	Pass	
Dibenz(a.h)anthracene	mg/L	< 0.001			0.001	Pass	
Fluoranthene	mg/L	< 0.001			0.001	Pass	
Fluorene	mg/L	< 0.001			0.001	Pass	
Indeno(1.2.3-cd)pyrene	mg/L	< 0.001			0.001	Pass	
Naphthalene	mg/L	< 0.001			0.001	Pass	
Phenanthrene	mg/L	< 0.001			0.001	Pass	
Pyrene	mg/L	< 0.001			0.001	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S14-Ja09745	NCP	%	118			70-130	Pass	
Acenaphthylene	S14-Ja09745	NCP	%	110			70-130	Pass	
Anthracene	S14-Ja09745	NCP	%	115			70-130	Pass	
Benz(a)anthracene	S14-Ja09745	NCP	%	109			70-130	Pass	
Benzo(a)pyrene	S14-Ja09745	NCP	%	123			70-130	Pass	
Benzo(b&j)fluoranthene	S14-Ja09745	NCP	%	111			70-130	Pass	
Benzo(g.h.i)perylene	S14-Ja09745	NCP	%	102			70-130	Pass	
Benzo(k)fluoranthene	S14-Ja09745	NCP	%	123			70-130	Pass	
Chrysene	S14-Ja09745	NCP	%	120			70-130	Pass	
Dibenz(a.h)anthracene	S14-Ja09745	NCP	%	101			70-130	Pass	
Fluoranthene	S14-Ja09745	NCP	%	126			70-130	Pass	
Fluorene	S14-Ja09745	NCP	%	120			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja09745	NCP	%	108			70-130	Pass	
Naphthalene	S14-Ja09745	NCP	%	129			70-130	Pass	
Phenanthrene	S14-Ja09745	NCP	%	123			70-130	Pass	
Pyrene	S14-Ja09745	NCP	%	127			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1	Result 2	RPD	Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Acenaphthylene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Anthracene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benz(a)anthracene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(a)pyrene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(b&j)fluoranthene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(g.h.i)perylene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(k)fluoranthene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chrysene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibenz(a.h)anthracene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluoranthene	S14-Ja09744	NCP	mg/L	0.0033	0.0028	14	30%	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Fluorene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja09744	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Naphthalene	S14-Ja09744	NCP	mg/L	0.017	0.017	1.0	30%	Pass	
Phenanthrene	S14-Ja09744	NCP	mg/L	0.0030	0.0027	9.0	30%	Pass	
Pyrene	S14-Ja09744	NCP	mg/L	0.0029	0.0025	13	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Lead	S14-Ja04561	NCP	mg/L	0.13	0.13	2.0	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
C01	Leachate Fluid Key: 1 - pH 5.0, 2 - pH 2.9, 3 - pH 9.2, 4 - Reagent (DI) water, 5 - Client sample, 6 - other
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs

Authorised By

Jean Heng	Client Services
James Norford	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)

Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

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From: Nathan Cussen [mailto:NCussen@jbsg.com.au]
Sent: Monday, 20 January 2014 6:15 PM
To: Jean Heng
Subject: Lab Batch 405434 - Green Square Block 8C 43182

Hi Jean,

Can I please schedule the following TCLP's:

- FC082 0.2-0.3 for PAH's; and
- FC097 0.2-0.3 for lead.

Cheers,
Nathan

EWOG # 406079

Nathan Cussen | Senior Environmental Consultant| JBS&G
Sydney | Melbourne | Adelaide | Perth | Brisbane
Level 1, 50 Margaret Street, Sydney NSW 2000
T: 02 8245 0300 | M: 0431 401 022| www.jbsg.com.au
Contaminated Land | Groundwater Remediation | Auditing and Compliance | Assessments and Approvals | Occupational Hygiene and Monitoring

If you would like to send through large electronic files (>25MB), please use JBS&G's secure internet-based file delivery system located at http://dropbox.yousendit.com/JBSG. Place 'Nathan Cussen - Sydney in the subject.
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Site # 1254 & 14271

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NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Sample Receipt Advice

Company name: **JBS & G (NSW & WA) Pty Ltd**

Contact name: Nathan Cussen
Client job number: GREEN SQUARE BLOCK 8C 43182
COC number: Not provided
Turn around time: 5 Day
Date/Time received: Jan 15, 2014 3:45 PM
Eurofins | mgt reference: **405749**

Sample information

☑ A detailed list of analytes logged into our LIMS, is included in the attached summary table.

☑ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt Sample Receipt : 11 degrees Celsius.

☑ All samples have been received as described on the above COC.

☑ COC has been completed correctly.

☑ Attempt to chill was evident.

☑ Appropriately preserved sample containers have been used.

☑ All samples were received in good condition.

☑ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.

☑ Organic samples had Teflon liners.

☒ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Contact notes

If you have any questions with respect to these samples please contact:

Jean Heng on Phone : (+61) (2) 9900 8400 or by e.mail: JeanHeng@eurofins.com.au

Results will be delivered electronically via e.mail to Nathan Cussen - ncussen@jbsg.com.au.

Eurofins | mgt Sample Receipt

eurofins | mgt

ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

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Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: GREEN SQUARE BLOCK 8C 43182

Order No.:
Report #: 405749
Phone: 02 8245 0300
Fax:

Received: Jan 15, 2014 3:45 PM
Due: Jan 22, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	Total Recoverable Hydrocarbons	Volatile Organics	JBS&G Suite 2
Laboratory where analysis is conducted													
Melbourne Laboratory - NATA Site # 1254 & 14271													
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794													
External Laboratory													
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**									
FC078 4.0-4.2	Jan 13, 2014		Soil	S14-Ja06185	X	X		X	X	X	X	X	
FC078 5.0-5.2	Jan 13, 2014		Soil	S14-Ja06186			X						
FC097 2.0-2.2	Jan 13, 2014		Soil	S14-Ja06187	X	X		X					X
FC097 3.0-3.2	Jan 13, 2014		Soil	S14-Ja06188	X	X		X	X	X	X		
FC097 4.0-4.2	Jan 13, 2014		Soil	S14-Ja06189			X						
QC16	Jan 13, 2014		Soil	S14-Ja06190	X				X	X	X	X	

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Certificate of Analysis

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Nathan Cussen**

Report **405749-S**
Client Reference GREEN SQUARE BLOCK 8C 43182
Received Date Jan 15, 2014

Client Sample ID **Sample Matrix** **Eurofins | mgt Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**FC078 4.0-4.2** **Soil** **S14-Ja06185** **Jan 13, 2014**	**FC097 2.0-2.2** **Soil** **S14-Ja06187** **Jan 13, 2014**	**FC097 3.0-3.2** **Soil** **S14-Ja06188** **Jan 13, 2014**	**QC16** **Soil** **S14-Ja06190** **Jan 13, 2014**
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	75	< 50	< 50	77
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-36 (Total)	50	mg/kg	75	< 50	< 50	77
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	-	-
Toluene	0.1	mg/kg	-	< 0.1	-	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	-
o-Xylene	0.1	mg/kg	-	< 0.1	-	-
Xylenes - Total	0.3	mg/kg	-	< 0.3	-	-
4-Bromofluorobenzene (surr.)	1	%	-	129	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
Volatile Organics						
1.1-Dichloroethane	0.05	mg/kg	< 0.05	-	-	< 0.05
1.1-Dichloroethene	0.05	mg/kg	< 0.05	-	-	< 0.05
1.1.1-Trichloroethane	0.05	mg/kg	< 0.05	-	-	< 0.05
1.1.1.2-Tetrachloroethane	0.05	mg/kg	< 0.05	-	-	< 0.05
1.1.2-Trichloroethane	0.05	mg/kg	< 0.05	-	-	< 0.05
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	< 0.5
1.2-Dibromoethane	0.05	mg/kg	< 0.05	-	-	< 0.05
1.2-Dichlorobenzene	0.05	mg/kg	< 0.05	-	-	< 0.05
1.2-Dichloroethane	0.05	mg/kg	< 0.05	-	-	< 0.05
1.2-Dichloropropane	0.05	mg/kg	< 0.05	-	-	< 0.05
1.2.3-Trichloropropane	0.05	mg/kg	< 0.05	-	-	< 0.05
1.2.4-Trimethylbenzene	0.05	mg/kg	< 0.05	-	-	< 0.05
1.3-Dichlorobenzene	0.05	mg/kg	< 0.05	-	-	< 0.05
1.3-Dichloropropane	0.05	mg/kg	< 0.05	-	-	< 0.05

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC078 4.0-4.2 Soil S14-Ja06185 Jan 13, 2014	FC097 2.0-2.2 Soil S14-Ja06187 Jan 13, 2014	FC097 3.0-3.2 Soil S14-Ja06188 Jan 13, 2014	QC16 Soil S14-Ja06190 Jan 13, 2014
Volatile Organics						
1.3.5-Trimethylbenzene	0.05	mg/kg	< 0.05	-	-	< 0.05
1.4-Dichlorobenzene	0.05	mg/kg	< 0.05	-	-	< 0.05
2-Butanone (MEK)	0.05	mg/kg	< 0.05	-	-	< 0.05
4-Chlorotoluene	0.05	mg/kg	< 0.05	-	-	< 0.05
4-Methyl-2-pentanone (MIBK)	0.05	mg/kg	< 0.05	-	-	< 0.05
Benzene	0.1	mg/kg	< 0.1	-	-	< 0.1
Bromobenzene	0.05	mg/kg	< 0.05	-	-	< 0.05
Bromochloromethane	0.05	mg/kg	< 0.05	-	-	< 0.05
Bromodichloromethane	0.05	mg/kg	< 0.05	-	-	< 0.05
Bromoform	0.05	mg/kg	< 0.05	-	-	< 0.05
Bromomethane	0.05	mg/kg	< 0.05	-	-	< 0.05
Carbon disulfide	0.05	mg/kg	< 0.05	-	-	< 0.05
Carbon Tetrachloride	0.05	mg/kg	< 0.05	-	-	< 0.05
Chlorobenzene	0.05	mg/kg	< 0.05	-	-	< 0.05
Chloroethane	0.05	mg/kg	< 0.05	-	-	< 0.05
Chloroform	0.05	mg/kg	< 0.05	-	-	< 0.05
Chloromethane	0.05	mg/kg	< 0.05	-	-	< 0.05
cis-1.2-Dichloroethene	0.05	mg/kg	< 0.05	-	-	< 0.05
cis-1.3-Dichloropropene	0.05	mg/kg	< 0.05	-	-	< 0.05
Dibromochloromethane	0.05	mg/kg	< 0.05	-	-	< 0.05
Dibromomethane	0.5	mg/kg	< 0.5	-	-	< 0.5
Dichlorodifluoromethane	0.05	mg/kg	< 0.05	-	-	< 0.05
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	< 0.1
Iodomethane	0.05	mg/kg	< 0.05	-	-	< 0.05
Isopropyl benzene (Cumene)	0.05	mg/kg	< 0.05	-	-	< 0.05
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	< 0.2
Methylene Chloride	0.05	mg/kg	< 0.05	-	-	< 0.05
o-Xylene	0.1	mg/kg	< 0.1	-	-	< 0.1
Styrene	0.05	mg/kg	< 0.05	-	-	< 0.05
Tetrachloroethene	0.05	mg/kg	< 0.05	-	-	< 0.05
Toluene	0.1	mg/kg	< 0.1	-	-	< 0.1
trans-1.2-Dichloroethene	0.05	mg/kg	< 0.05	-	-	< 0.05
trans-1.3-Dichloropropene	0.05	mg/kg	< 0.05	-	-	< 0.05
Trichloroethene	0.05	mg/kg	< 0.05	-	-	< 0.05
Trichlorofluoromethane	0.05	mg/kg	< 0.05	-	-	< 0.05
Vinyl chloride	0.05	mg/kg	< 0.05	-	-	< 0.05
Xylenes - Total	0.3	mg/kg	< 0.3	-	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	101	-	-	101
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC078 4.0-4.2 Soil S14-Ja06185 Jan 13, 2014	FC097 2.0-2.2 Soil S14-Ja06187 Jan 13, 2014	FC097 3.0-3.2 Soil S14-Ja06188 Jan 13, 2014	QC16 Soil S14-Ja06190 Jan 13, 2014
Polycyclic Aromatic Hydrocarbons						
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	1.2	1.2	1.2	1.2
2-Fluorobiphenyl (surr.)	1	%	100	85	86	85
p-Terphenyl-d14 (surr.)	1	%	109	96	96	95
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	-
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	-
a-BHC	0.05	mg/kg	-	< 0.05	-	-
Aldrin	0.05	mg/kg	-	< 0.05	-	-
b-BHC	0.05	mg/kg	-	< 0.05	-	-
d-BHC	0.05	mg/kg	-	< 0.05	-	-
Dieldrin	0.05	mg/kg	-	< 0.05	-	-
Endosulfan I	0.05	mg/kg	-	< 0.05	-	-
Endosulfan II	0.05	mg/kg	-	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	-
Endrin	0.05	mg/kg	-	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	-
Endrin ketone	0.05	mg/kg	-	< 0.05	-	-
g-BHC (Lindane)	0.05	mg/kg	-	< 0.05	-	-
Heptachlor	0.05	mg/kg	-	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	-
Methoxychlor	0.2	mg/kg	-	< 0.2	-	-
Toxaphene	1	mg/kg	-	< 1	-	-
Dibutylchlorendate (surr.)	1	%	-	78	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	85	-	-
Polychlorinated Biphenyls (PCB)						
Aroclor-1016	0.5	mg/kg	-	< 0.5	-	-
Aroclor-1232	0.5	mg/kg	-	< 0.5	-	-
Aroclor-1242	0.5	mg/kg	-	< 0.5	-	-
Aroclor-1248	0.5	mg/kg	-	< 0.5	-	-
Aroclor-1254	0.5	mg/kg	-	< 0.5	-	-
Aroclor-1260	0.5	mg/kg	-	< 0.5	-	-
Total PCB	0.5	mg/kg	-	< 0.5	-	-
Dibutylchlorendate (surr.)	1	%	-	78	-	-
Conductivity (1:5 aqueous extract at 25°C)	5	uS/cm	200	380	250	-
pH (1:5 Aqueous extract)	0.1	units	5.5	7.4	9.3	-
% Moisture	0.1	%	15	8.2	11	17

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC078 4.0-4.2 Soil S14-Ja06185 Jan 13, 2014	FC097 2.0-2.2 Soil S14-Ja06187 Jan 13, 2014	FC097 3.0-3.2 Soil S14-Ja06188 Jan 13, 2014	QC16 Soil S14-Ja06190 Jan 13, 2014
Heavy Metals						
Arsenic	2	mg/kg	7.9	< 2	< 2	5.1
Cadmium	0.4	mg/kg	< 0.4	0.7	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	5.5	9.3	< 5
Copper	5	mg/kg	47	8.1	< 5	27
Lead	5	mg/kg	5.6	< 5	< 5	< 5
Mercury	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Nickel	5	mg/kg	< 5	< 5	< 5	< 5
Zinc	5	mg/kg	13	5.8	8.5	11

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Jan 17, 2014	14 Day
- Method: E004 Petroleum Hydrocarbons (TPH)			
BTEX	Sydney	Jan 17, 2014	14 Day
- Method: E029/E016 BTEX			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jan 17, 2014	14 Day
- Method: LM-LTM-ORG2010			
Polycyclic Aromatic Hydrocarbons	Sydney	Jan 17, 2014	14 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Organochlorine Pesticides	Sydney	Jan 17, 2014	14 Day
- Method: E013 Organochlorine Pesticides (OC)			
Polychlorinated Biphenyls (PCB)	Sydney	Jan 17, 2014	28 Day
- Method: E013 Polychlorinated Biphenyls (PCB)			
Metals M8	Sydney	Jan 17, 2014	28 Day
- Method: E022 Acid Extractable metals in Soils & E026 Mercury			
Volatile Organics	Sydney	Jan 17, 2014	7 Day
- Method: E016 Volatile Organic Compounds (VOC)			
Conductivity (1:5 aqueous extract at 25°C)	Sydney	Jan 17, 2014	7 Day
- Method: E032.2 Electrical Conductivity (EC)			
pH (1:5 Aqueous extract)	Sydney	Jan 17, 2014	7 Day
- Method: E018.2 pH			
% Moisture	Sydney	Jan 17, 2014	28 Day
- Method: E005 Moisture Content			

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Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: GREEN SQUARE BLOCK 8C 43182

Order No.:
Report #: 405749
Phone: 02 8245 0300
Fax:

Received: Jan 15, 2014 3:45 PM
Due: Jan 22, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	Total Recoverable Hydrocarbons	Volatile Organics	JBS&G Suite 2
Laboratory where analysis is conducted													
Melbourne Laboratory - NATA Site # 1254 & 14271													
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794													
External Laboratory													
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**									
FC078 4.0-4.2	Jan 13, 2014		Soil	S14-Ja06185	X	X		X	X	X	X	X	
FC078 5.0-5.2	Jan 13, 2014		Soil	S14-Ja06186			X						
FC097 2.0-2.2	Jan 13, 2014		Soil	S14-Ja06187	X	X		X					X
FC097 3.0-3.2	Jan 13, 2014		Soil	S14-Ja06188	X	X		X	X	X	X		
FC097 4.0-4.2	Jan 13, 2014		Soil	S14-Ja06189			X						
QC16	Jan 13, 2014		Soil	S14-Ja06190	X				X	X	X	X	

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH C6-C10 less BTEX (F1)	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/kg	< 0.05			0.05	Pass	
1.1-Dichloroethene	mg/kg	< 0.05			0.05	Pass	
1.1.1-Trichloroethane	mg/kg	< 0.05			0.05	Pass	
1.1.1.2-Tetrachloroethane	mg/kg	< 0.05			0.05	Pass	
1.1.2-Trichloroethane	mg/kg	< 0.05			0.05	Pass	
1.1.2.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dibromoethane	mg/kg	< 0.05			0.05	Pass	
1.2-Dichlorobenzene	mg/kg	< 0.05			0.05	Pass	
1.2-Dichloroethane	mg/kg	< 0.05			0.05	Pass	
1.2-Dichloropropane	mg/kg	< 0.05			0.05	Pass	
1.2.3-Trichloropropane	mg/kg	< 0.05			0.05	Pass	
1.2.4-Trimethylbenzene	mg/kg	< 0.05			0.05	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.05			0.05	Pass	
1.3-Dichloropropane	mg/kg	< 0.05			0.05	Pass	
1.3.5-Trimethylbenzene	mg/kg	< 0.05			0.05	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.05			0.05	Pass	
2-Butanone (MEK)	mg/kg	< 0.05			0.05	Pass	
4-Chlorotoluene	mg/kg	< 0.05			0.05	Pass	
4-Methyl-2-pentanone (MIBK)	mg/kg	< 0.05			0.05	Pass	
Bromobenzene	mg/kg	< 0.05			0.05	Pass	
Bromochloromethane	mg/kg	< 0.05			0.05	Pass	
Bromodichloromethane	mg/kg	< 0.05			0.05	Pass	
Bromoform	mg/kg	< 0.05			0.05	Pass	
Bromomethane	mg/kg	< 0.05			0.05	Pass	
Carbon disulfide	mg/kg	< 0.05			0.05	Pass	
Carbon Tetrachloride	mg/kg	< 0.05			0.05	Pass	
Chlorobenzene	mg/kg	< 0.05			0.05	Pass	
Chloroethane	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Chloroform	mg/kg	< 0.05			0.05	Pass	
Chloromethane	mg/kg	< 0.05			0.05	Pass	
cis-1.2-Dichloroethene	mg/kg	< 0.05			0.05	Pass	
cis-1.3-Dichloropropene	mg/kg	< 0.05			0.05	Pass	
Dibromochloromethane	mg/kg	< 0.05			0.05	Pass	
Dibromomethane	mg/kg	< 0.5			0.5	Pass	
Dichlorodifluoromethane	mg/kg	< 0.05			0.05	Pass	
Iodomethane	mg/kg	< 0.05			0.05	Pass	
Isopropyl benzene (Cumene)	mg/kg	< 0.05			0.05	Pass	
Methylene Chloride	mg/kg	< 0.05			0.05	Pass	
Styrene	mg/kg	< 0.05			0.05	Pass	
Tetrachloroethene	mg/kg	< 0.05			0.05	Pass	
trans-1.2-Dichloroethene	mg/kg	< 0.05			0.05	Pass	
trans-1.3-Dichloropropene	mg/kg	< 0.05			0.05	Pass	
Trichloroethene	mg/kg	< 0.05			0.05	Pass	
Trichlorofluoromethane	mg/kg	< 0.05			0.05	Pass	
Vinyl chloride	mg/kg	< 0.05			0.05	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-BHC	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-BHC	mg/kg	< 0.05			0.05	Pass	
d-BHC	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-BHC (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.2			0.2	Pass	
Toxaphene	mg/kg	< 1			1	Pass	
Method Blank							
Polychlorinated Biphenyls (PCB)							
Aroclor-1016	mg/kg	< 0.5			0.5	Pass	
Aroclor-1232	mg/kg	< 0.5			0.5	Pass	
Aroclor-1242	mg/kg	< 0.5			0.5	Pass	
Aroclor-1248	mg/kg	< 0.5			0.5	Pass	
Aroclor-1254	mg/kg	< 0.5			0.5	Pass	
Aroclor-1260	mg/kg	< 0.5			0.5	Pass	
Total PCB	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.05			0.05	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	94			70-130	Pass	
TRH C10-C14	%	76			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	98			70-130	Pass	
Toluene	%	102			70-130	Pass	
Ethylbenzene	%	102			70-130	Pass	
m&p-Xylenes	%	103			70-130	Pass	
o-Xylene	%	102			70-130	Pass	
Xylenes - Total	%	94			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	109			70-130	Pass	
TRH C6-C10	%	95			70-130	Pass	
TRH >C10-C16	%	81			70-130	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethane	%	94			75-125	Pass	
1.1-Dichloroethene	%	92			70-130	Pass	
1.1.1-Trichloroethane	%	94			70-130	Pass	
1.1.1.2-Tetrachloroethane	%	97			70-130	Pass	
1.1.2-Trichloroethane	%	105			70-130	Pass	
1.1.2.2-Tetrachloroethane	%	117			70-130	Pass	
1.2-Dibromoethane	%	106			70-130	Pass	
1.2-Dichlorobenzene	%	108			70-130	Pass	
1.2-Dichloroethane	%	102			70-130	Pass	
1.2-Dichloropropane	%	99			70-130	Pass	
1.2.3-Trichloropropane	%	120			70-130	Pass	
1.2.4-Trimethylbenzene	%	109			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
1.3-Dichlorobenzene	%	109			70-130	Pass	
1.3-Dichloropropane	%	107			70-130	Pass	
1.3.5-Trimethylbenzene	%	110			70-130	Pass	
1.4-Dichlorobenzene	%	110			70-130	Pass	
2-Butanone (MEK)	%	108			70-130	Pass	
4-Chlorotoluene	%	111			70-130	Pass	
4-Methyl-2-pentanone (MIBK)	%	110			70-130	Pass	
Bromobenzene	%	114			70-130	Pass	
Bromochloromethane	%	98			70-130	Pass	
Bromodichloromethane	%	99			70-130	Pass	
Bromoform	%	98			70-130	Pass	
Bromomethane	%	88			70-130	Pass	
Carbon disulfide	%	82			70-130	Pass	
Carbon Tetrachloride	%	92			70-130	Pass	
Chlorobenzene	%	100			70-130	Pass	
Chloroethane	%	90			70-130	Pass	
Chloroform	%	99			70-130	Pass	
Chloromethane	%	86			70-130	Pass	
cis-1.2-Dichloroethene	%	96			70-130	Pass	
cis-1.3-Dichloropropene	%	98			70-130	Pass	
Dibromochloromethane	%	101			70-130	Pass	
Dibromomethane	%	90			70-130	Pass	
Dichlorodifluoromethane	%	72			70-130	Pass	
Iodomethane	%	89			75-125	Pass	
Isopropyl benzene (Cumene)	%	102			70-130	Pass	
Methylene Chloride	%	97			70-130	Pass	
Styrene	%	103			70-130	Pass	
Tetrachloroethene	%	100			70-130	Pass	
trans-1.2-Dichloroethene	%	89			70-130	Pass	
trans-1.3-Dichloropropene	%	98			70-130	Pass	
Trichloroethene	%	96			70-130	Pass	
Trichlorofluoromethane	%	88			70-130	Pass	
Vinyl chloride	%	88			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	117			70-130	Pass	
Acenaphthylene	%	116			70-130	Pass	
Anthracene	%	110			70-130	Pass	
Benz(a)anthracene	%	112			70-130	Pass	
Benzo(a)pyrene	%	122			70-130	Pass	
Benzo(b&j)fluoranthene	%	105			70-130	Pass	
Benzo(g.h.i)perylene	%	125			70-130	Pass	
Benzo(k)fluoranthene	%	122			70-130	Pass	
Chrysene	%	120			70-130	Pass	
Dibenz(a.h)anthracene	%	122			70-130	Pass	
Fluoranthene	%	118			70-130	Pass	
Fluorene	%	111			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	123			70-130	Pass	
Naphthalene	%	114			70-130	Pass	
Phenanthrene	%	109			70-130	Pass	
Pyrene	%	108			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	125			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
4.4'-DDD	%	127			70-130	Pass	
4.4'-DDE	%	121			70-130	Pass	
4.4'-DDT	%	129			70-130	Pass	
a-BHC	%	123			70-130	Pass	
Aldrin	%	124			70-130	Pass	
b-BHC	%	128			70-130	Pass	
d-BHC	%	122			70-130	Pass	
Dieldrin	%	124			70-130	Pass	
Endosulfan I	%	125			70-130	Pass	
Endosulfan II	%	128			70-130	Pass	
Endosulfan sulphate	%	129			70-130	Pass	
Endrin	%	126			70-130	Pass	
Endrin aldehyde	%	125			70-130	Pass	
Endrin ketone	%	130			70-130	Pass	
g-BHC (Lindane)	%	125			70-130	Pass	
Heptachlor	%	120			70-130	Pass	
Heptachlor epoxide	%	125			70-130	Pass	
Hexachlorobenzene	%	101			70-130	Pass	
Methoxychlor	%	126			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls (PCB)							
Aroclor-1260	%	106			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	88			70-130	Pass	
Cadmium	%	93			70-130	Pass	
Chromium	%	96			70-130	Pass	
Copper	%	107			70-130	Pass	
Lead	%	97			70-130	Pass	
Mercury	%	102			70-130	Pass	
Nickel	%	99			70-130	Pass	
Zinc	%	105			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S14-Ja06185	CP	%	86			70-130	Pass	
TRH C10-C14	S14-Ja06185	CP	%	79			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S14-Ja06185	CP	%	93			70-130	Pass	
Toluene	S14-Ja06185	CP	%	96			70-130	Pass	
Ethylbenzene	S14-Ja06185	CP	%	98			70-130	Pass	
m&p-Xylenes	S14-Ja06185	CP	%	99			70-130	Pass	
o-Xylene	S14-Ja06185	CP	%	99			70-130	Pass	
Xylenes - Total	S14-Ja06185	CP	%	87			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S14-Ja06185	CP	%	96			70-130	Pass	
TRH C6-C10	S14-Ja06185	CP	%	85			70-130	Pass	
TRH >C10-C16	S14-Ja06185	CP	%	86			70-130	Pass	
Spike - % Recovery									
Volatile Organics				Result 1					
1.1-Dichloroethane	S14-Ja06185	CP	%	87			75-125	Pass	
1.1-Dichloroethene	S14-Ja06185	CP	%	84			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
1.1.1-Trichloroethane	S14-Ja06185	CP	%	86			70-130	Pass	
1.1.1.2-Tetrachloroethane	S14-Ja06185	CP	%	93			70-130	Pass	
1.1.2-Trichloroethane	S14-Ja06185	CP	%	100			70-130	Pass	
1.1.2.2-Tetrachloroethane	S14-Ja06185	CP	%	115			70-130	Pass	
1.2-Dibromoethane	S14-Ja06185	CP	%	100			70-130	Pass	
1.2-Dichlorobenzene	S14-Ja06185	CP	%	99			70-130	Pass	
1.2-Dichloroethane	S14-Ja06185	CP	%	96			70-130	Pass	
1.2-Dichloropropane	S14-Ja06185	CP	%	94			70-130	Pass	
1.2.3-Trichloropropane	S14-Ja06185	CP	%	113			70-130	Pass	
1.2.4-Trimethylbenzene	S14-Ja06185	CP	%	100			70-130	Pass	
1.3-Dichlorobenzene	S14-Ja06185	CP	%	99			70-130	Pass	
1.3-Dichloropropane	S14-Ja06185	CP	%	102			70-130	Pass	
1.3.5-Trimethylbenzene	S14-Ja06185	CP	%	100			70-130	Pass	
1.4-Dichlorobenzene	S14-Ja06185	CP	%	100			70-130	Pass	
2-Butanone (MEK)	S14-Ja06185	CP	%	101			70-130	Pass	
4-Chlorotoluene	S14-Ja06185	CP	%	101			70-130	Pass	
4-Methyl-2-pentanone (MIBK)	S14-Ja06185	CP	%	104			70-130	Pass	
Bromobenzene	S14-Ja06185	CP	%	105			70-130	Pass	
Bromochloromethane	S14-Ja06185	CP	%	89			70-130	Pass	
Bromodichloromethane	S14-Ja06185	CP	%	92			70-130	Pass	
Bromoform	S14-Ja06185	CP	%	89			70-130	Pass	
Bromomethane	S14-Ja06185	CP	%	79			70-130	Pass	
Carbon disulfide	S14-Ja06185	CP	%	70			70-130	Pass	
Carbon Tetrachloride	S14-Ja06185	CP	%	83			70-130	Pass	
Chlorobenzene	S14-Ja06185	CP	%	96			70-130	Pass	
Chloroethane	S14-Ja06185	CP	%	83			70-130	Pass	
Chloroform	S14-Ja06185	CP	%	93			70-130	Pass	
Chloromethane	S14-Ja06185	CP	%	75			70-130	Pass	
cis-1.2-Dichloroethene	S14-Ja06185	CP	%	89			70-130	Pass	
cis-1.3-Dichloropropene	S14-Ja06185	CP	%	89			70-130	Pass	
Dibromochloromethane	S14-Ja06185	CP	%	91			70-130	Pass	
Dibromomethane	S14-Ja06185	CP	%	89			70-130	Pass	
Iodomethane	S14-Ja06185	CP	%	81			75-125	Pass	
Isopropyl benzene (Cumene)	S14-Ja06185	CP	%	98			70-130	Pass	
Methylene Chloride	S14-Ja06185	CP	%	92			70-130	Pass	
Styrene	S14-Ja06185	CP	%	99			70-130	Pass	
Tetrachloroethene	S14-Ja06185	CP	%	93			70-130	Pass	
trans-1.2-Dichloroethene	S14-Ja06185	CP	%	86			70-130	Pass	
trans-1.3-Dichloropropene	S14-Ja06185	CP	%	89			70-130	Pass	
Trichloroethene	S14-Ja06185	CP	%	90			70-130	Pass	
Trichlorofluoromethane	S14-Ja06185	CP	%	80			70-130	Pass	
Vinyl chloride	S14-Ja06185	CP	%	77			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S14-Ja06447	NCP	%	126			70-130	Pass	
Acenaphthylene	S14-Ja06447	NCP	%	114			70-130	Pass	
Anthracene	S14-Ja06447	NCP	%	123			70-130	Pass	
Benz(a)anthracene	S14-Ja06447	NCP	%	122			70-130	Pass	
Benzo(a)pyrene	S14-Ja06447	NCP	%	130			70-130	Pass	
Benzo(b&j)fluoranthene	S14-Ja06447	NCP	%	99			70-130	Pass	
Benzo(g.h.i)perylene	S14-Ja06447	NCP	%	129			70-130	Pass	
Benzo(k)fluoranthene	S14-Ja06447	NCP	%	124			70-130	Pass	
Chrysene	S14-Ja06447	NCP	%	121			70-130	Pass	
Dibenz(a.h)anthracene	S14-Ja06447	NCP	%	126			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Fluoranthene	S14-Ja06447	NCP	%	129			70-130	Pass	
Fluorene	S14-Ja06447	NCP	%	129			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja06447	NCP	%	127			70-130	Pass	
Naphthalene	S14-Ja06447	NCP	%	125			70-130	Pass	
Phenanthrene	S14-Ja06447	NCP	%	130			70-130	Pass	
Pyrene	S14-Ja06447	NCP	%	129			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S14-Ja06185	CP	%	80			70-130	Pass	
Cadmium	S14-Ja06185	CP	%	102			70-130	Pass	
Chromium	S14-Ja06185	CP	%	103			70-130	Pass	
Copper	S14-Ja06185	CP	%	78			70-130	Pass	
Lead	S14-Ja06185	CP	%	97			70-130	Pass	
Mercury	S14-Ja04226	NCP	%	104			70-130	Pass	
Nickel	S14-Ja06185	CP	%	98			70-130	Pass	
Zinc	S14-Ja06185	CP	%	103			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S14-Ja06185	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S14-Ja06185	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S14-Ja06185	CP	mg/kg	75	98	26	30%	Pass	
TRH C29-C36	S14-Ja06185	CP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S14-Ja06185	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S14-Ja06185	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S14-Ja06185	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S14-Ja06185	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S14-Ja06185	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total	S14-Ja06185	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S14-Ja06185	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S14-Ja06185	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S14-Ja06185	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S14-Ja06185	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S14-Ja06185	CP	mg/kg	< 100	120	32	30%	Fail	Q15
TRH >C34-C40	S14-Ja06185	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	S14-Ja06185	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.1-Dichloroethene	S14-Ja06185	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.1.1-Trichloroethane	S14-Ja06185	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	S14-Ja06185	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.1.2-Trichloroethane	S14-Ja06185	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	S14-Ja06185	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromoethane	S14-Ja06185	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.2-Dichlorobenzene	S14-Ja06185	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.2-Dichloroethane	S14-Ja06185	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.2-Dichloropropane	S14-Ja06185	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.2.3-Trichloropropane	S14-Ja06185	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.2.4-Trimethylbenzene	S14-Ja06185	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.3-Dichlorobenzene	S14-Ja06185	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	

Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.3-Dichloropropane	S14-Ja06185	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.3.5-Trimethylbenzene	S14-Ja06185	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.4-Dichlorobenzene	S14-Ja06185	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
2-Butanone (MEK)	S14-Ja06185	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4-Chlorotoluene	S14-Ja06185	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	S14-Ja06185	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Bromobenzene	S14-Ja06185	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Bromochloromethane	S14-Ja06185	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Bromodichloromethane	S14-Ja06185	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Bromoform	S14-Ja06185	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Bromomethane	S14-Ja06185	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Carbon disulfide	S14-Ja06185	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Carbon Tetrachloride	S14-Ja06185	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Chlorobenzene	S14-Ja06185	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Chloroethane	S14-Ja06185	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Chloroform	S14-Ja06185	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Chloromethane	S14-Ja06185	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
cis-1.2-Dichloroethene	S14-Ja06185	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
cis-1.3-Dichloropropene	S14-Ja06185	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dibromochloromethane	S14-Ja06185	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dibromomethane	S14-Ja06185	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorodifluoromethane	S14-Ja06185	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Iodomethane	S14-Ja06185	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Isopropyl benzene (Cumene)	S14-Ja06185	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methylene Chloride	S14-Ja06185	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Styrene	S14-Ja06185	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Tetrachloroethene	S14-Ja06185	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
trans-1.2-Dichloroethene	S14-Ja06185	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
trans-1.3-Dichloropropene	S14-Ja06185	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Trichloroethene	S14-Ja06185	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Trichlorofluoromethane	S14-Ja06185	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Vinyl chloride	S14-Ja06185	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S14-Ja06447	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S14-Ja06447	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S14-Ja06447	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S14-Ja06447	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S14-Ja06447	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S14-Ja06447	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S14-Ja06447	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S14-Ja06447	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S14-Ja06447	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S14-Ja06447	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S14-Ja06447	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S14-Ja06447	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja06447	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S14-Ja06447	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S14-Ja06447	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S14-Ja06447	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Conductivity (1:5 aqueous extract at 25°C)	S14-Ja06185	CP	uS/cm	200	210	3.0	30%	Pass	

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S14-Ja06185	CP	mg/kg	7.9	8.3	5.0	30%	Pass	
Cadmium	S14-Ja06185	CP	mg/kg	< 0.4	0.5	54	30%	Fail	Q15
Chromium	S14-Ja06185	CP	mg/kg	< 5	5.5	36	30%	Fail	Q15
Copper	S14-Ja06185	CP	mg/kg	47	42	12	30%	Pass	
Lead	S14-Ja06185	CP	mg/kg	5.6	< 5	36	30%	Fail	Q15
Mercury	S14-Ja04226	NCP	mg/kg	0.050	< 0.05	140	30%	Fail	Q15
Nickel	S14-Ja06185	CP	mg/kg	< 5	5.6	26	30%	Pass	
Zinc	S14-Ja06185	CP	mg/kg	13	24	56	30%	Fail	Q15
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S14-Ja05804	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S14-Ja05804	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S14-Ja05804	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S14-Ja05804	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	S14-Ja05804	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S14-Ja05804	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	S14-Ja05804	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-BHC	S14-Ja05804	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S14-Ja05804	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S14-Ja05804	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S14-Ja05804	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S14-Ja05804	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S14-Ja05804	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S14-Ja05804	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S14-Ja05804	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	S14-Ja05804	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S14-Ja05804	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S14-Ja05804	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S14-Ja05804	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S14-Ja05804	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Toxaphene	S14-Ja05804	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls (PCB)				Result 1	Result 2	RPD			
Aroclor-1016	S14-Ja05804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1232	S14-Ja05804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1242	S14-Ja05804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1248	S14-Ja05804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1254	S14-Ja05804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1260	S14-Ja05804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q15	The RPD reported passes Eurofins | mgt's Acceptance Criteria as stipulated in SOP 05. Refer to Glossary Page of this report for further details

Authorised By

Jean Heng	Client Services
Bob Symons	Senior Analyst-Inorganic (NSW)
James Norford	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)
Ryan Hamilton	Senior Analyst-Volatile (NSW)

Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

Eurofins | mgt shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins | mgt be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

eurofins | mgt
Unit F3-F6 Building F, Parkview Building
16 Mars Road, Lane Cove West
NSW 2066

Page 1 of 1

B 405749

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square Block 8C
SEND REPORT TO: N Cussen SEND INVOICE TO: G Ng
DATE NEEDED BY: STD TAT

LABORATORY BATCH NO.:
SAMPLERS: Chris B
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: ncussen@jbsg.com.au
QC LEVEL: NEPM (2013)

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	JB1	JB1T	JB1A	JB2	JB2A	B10	JB2/JBL	JB3/JBL	JB4	JBL	8 Metals	TRH	PAH	pH	EC	CEC	VOCs				NOTES:
FC078 4.0-4.2	Soil	13/1/14		Ice + Ice												X	X	X	X	X		X				
FC078 5.0-5.2																										
FC097 2.0-2.2									X										X	X						
FC097 3.0-3.2																X	X	X	X	X						
FC097 4.0-4.2																										
QC16																X	X	X				X				

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Nathan DATE: 13/1/14	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE:	
		OF:	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; O = Other; ST = Sterile Bottle

IMSO FormsO13 - Chain of Custody - eurofins mgt

JB1 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1T - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos
JB2 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
B10 - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2/JBL - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)
JB3/JBL - TRH/BTEX/PAH/OCP/OPP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)/Asbestos
JB4 - TRH/BTEX/VOC
JBL - TCLP(PAH & 6 Metals)

RECEIVED
15 JAN 2014
BY: Sam 3:45

eurofins | mgt

ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

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Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F6, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Sample Receipt Advice

Company name: **JBS & G (NSW & WA) Pty Ltd**

Contact name: Nathan Cussen
Client job number: GREEN SQUARE BLOCK 8C 43182
COC number: Not provided
Turn around time: 5 Day
Date/Time received: Jan 13, 2014 5:00 PM
Eurofins | mgt reference: **405434**

Sample information

☑ A detailed list of analytes logged into our LIMS, is included in the attached summary table.

☑ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt Sample Receipt : 7 degrees Celsius.

☑ All samples have been received as described on the above COC.

☑ COC has been completed correctly.

☑ Attempt to chill was evident.

☑ Appropriately preserved sample containers have been used.

☑ All samples were received in good condition.

☑ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.

☑ Organic samples had Teflon liners.

☒ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Contact notes

If you have any questions with respect to these samples please contact:

Jean Heng on Phone : (+61) (2) 9900 8400 or by e.mail: JeanHeng@eurofins.com.au

Results will be delivered electronically via e.mail to Nathan Cussen - ncussen@jbsg.com.au.

Eurofins | mgt Sample Receipt

eurofins | mgt

ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

Melbourne
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Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: GREEN SQUARE BLOCK 8C 43182

Order No.:
Report #: 405434
Phone: 02 8245 0300
Fax:

Received: Jan 13, 2014 5:00 PM
Due: Jan 21, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Total Recoverable Hydrocarbons	JBS&G Suite 2
Laboratory where analysis is conducted													
Melbourne Laboratory - NATA Site # 1254 & 14271													
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794													
External Laboratory													
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**									
FC078 0.1-0.2	Jan 08, 2014		Soil	S14-Ja03581	X	X		X					X
FC078 2.0-2.2	Jan 08, 2014		Soil	S14-Ja03582	X								X
FC078 3.0-3.2	Jan 08, 2014		Soil	S14-Ja03583			X						
FC079 0.1-0.2	Jan 08, 2014		Soil	S14-Ja03584	X	X		X					X
FC079 0.5-0.8	Jan 08, 2014		Soil	S14-Ja03585			X						
FC079 1.8-2.0	Jan 08, 2014		Soil	S14-Ja03586	X	X		X					X
FC079 3.5-3.7	Jan 08, 2014		Soil	S14-Ja03587			X						
FC081 0.2-0.3	Jan 08, 2014		Soil	S14-Ja03588	X	X		X					X
FC081 0.8-1.0	Jan 08, 2014		Soil	S14-Ja03589	X								X
FC081 2.8-3.0	Jan 08, 2014		Soil	S14-Ja03590			X						

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ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

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Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: GREEN SQUARE BLOCK 8C 43182

Order No.:
Report #: 405434
Phone: 02 8245 0300
Fax:

Received: Jan 13, 2014 5:00 PM
Due: Jan 21, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Total Recoverable Hydrocarbons	JBS&G Suite 2
Laboratory where analysis is conducted													
Melbourne Laboratory - NATA Site # 1254 & 14271													
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794													
External Laboratory													
FC082 0.2-0.3	Jan 08, 2014		Soil	S14-Ja03591	X								X
FC082 0.6-0.8	Jan 08, 2014		Soil	S14-Ja03592			X						
FC082 1.8-2.0	Jan 08, 2014		Soil	S14-Ja03593	X								X
FC082 2.8-3.0	Jan 08, 2014		Soil	S14-Ja03594	X				X	X	X	X	
FC082 3.5-3.7	Jan 08, 2014		Soil	S14-Ja03595			X						
FC097 0.2-0.3	Jan 08, 2014		Soil	S14-Ja03596	X	X		X					X
FC097 0.8-1.0	Jan 08, 2014		Soil	S14-Ja03597			X						
FC097 1.3-1.5	Jan 08, 2014		Soil	S14-Ja03598	X				X	X		X	
FC098 0.2-0.3	Jan 08, 2014		Soil	S14-Ja03599	X	X		X					X
FC098 0.5-0.8	Jan 08, 2014		Soil	S14-Ja03600			X						
FC098 3.0-3.2	Jan 08, 2014		Soil	S14-Ja03601			X						

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Certificate of Analysis

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Nathan Cussen**

Report **405434-S**
Client Reference GREEN SQUARE BLOCK 8C 43182
Received Date Jan 13, 2014

Client Sample ID **Sample Matrix** **Eurofins | mgt Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**FC078 0.1-0.2** **Soil** **S14-Ja03581** **Jan 08, 2014**	**FC078 2.0-2.2** **Soil** **S14-Ja03582** **Jan 08, 2014**	**FC079 0.1-0.2** **Soil** **S14-Ja03584** **Jan 08, 2014**	**FC079 1.8-2.0** **Soil** **S14-Ja03586** **Jan 08, 2014**
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	74	< 50	< 50	< 50
TRH C10-36 (Total)	50	mg/kg	74	< 50	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	125	118	124	115
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	140	< 100	< 100	< 100
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.6
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC078 0.1-0.2 Soil S14-Ja03581 Jan 08, 2014	FC078 2.0-2.2 Soil S14-Ja03582 Jan 08, 2014	FC079 0.1-0.2 Soil S14-Ja03584 Jan 08, 2014	FC079 1.8-2.0 Soil S14-Ja03586 Jan 08, 2014
Polycyclic Aromatic Hydrocarbons						
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.6
Total PAH	0.5	mg/kg	< 0.5	< 0.5	< 0.5	1.2
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	1.2	1.2	1.2	1.2
2-Fluorobiphenyl (surr.)	1	%	88	84	84	85
p-Terphenyl-d14 (surr.)	1	%	104	98	95	98
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Toxaphene	1	mg/kg	< 1	< 1	< 1	< 1
Dibutylchlorendate (surr.)	1	%	106	114	99	120
Tetrachloro-m-xylene (surr.)	1	%	83	94	75	98
Polychlorinated Biphenyls (PCB)						
Aroclor-1016	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aroclor-1232	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aroclor-1242	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aroclor-1248	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aroclor-1254	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aroclor-1260	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PCB	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibutylchlorendate (surr.)	1	%	106	114	99	120
Conductivity (1:5 aqueous extract at 25°C)	5	uS/cm	230	-	170	220
pH (1:5 Aqueous extract)	0.1	units	8.3	-	8.5	8.4
% Moisture	0.1	%	12	17	9.8	11

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC078 0.1-0.2 Soil S14-Ja03581 Jan 08, 2014	FC078 2.0-2.2 Soil S14-Ja03582 Jan 08, 2014	FC079 0.1-0.2 Soil S14-Ja03584 Jan 08, 2014	FC079 1.8-2.0 Soil S14-Ja03586 Jan 08, 2014
Heavy Metals						
Arsenic	2	mg/kg	5.3	35	2.6	8.5
Cadmium	0.4	mg/kg	0.9	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	7.9	< 5	5.6	7.2
Copper	5	mg/kg	100	17	13	2100
Lead	5	mg/kg	88	< 5	17	150
Mercury	0.05	mg/kg	0.05	0.07	< 0.05	0.18
Nickel	5	mg/kg	8.4	< 5	< 5	18
Zinc	5	mg/kg	490	5.3	22	300

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC081 0.2-0.3 Soil S14-Ja03588 Jan 08, 2014	FC081 0.8-1.0 Soil S14-Ja03589 Jan 08, 2014	FC082 0.2-0.3 Soil S14-Ja03591 Jan 08, 2014	FC082 1.8-2.0 Soil S14-Ja03593 Jan 08, 2014
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	124	106	122	105
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	1.1	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	1.2	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	0.7	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	0.8	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	1.3	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	1.0	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	2.0	< 0.5

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC081 0.2-0.3 Soil S14-Ja03588 Jan 08, 2014	FC081 0.8-1.0 Soil S14-Ja03589 Jan 08, 2014	FC082 0.2-0.3 Soil S14-Ja03591 Jan 08, 2014	FC082 1.8-2.0 Soil S14-Ja03593 Jan 08, 2014
Polycyclic Aromatic Hydrocarbons						
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	0.7	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	1.0	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	2.0	< 0.5
Total PAH	0.5	mg/kg	< 0.5	< 0.5	12	< 0.5
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	< 0.5	< 0.5	1.6	< 0.5
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	0.6	0.6	1.9	0.6
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	1.2	1.2	2.1	1.2
2-Fluorobiphenyl (surr.)	1	%	81	87	89	87
p-Terphenyl-d14 (surr.)	1	%	93	98	102	102
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Toxaphene	1	mg/kg	< 1	< 1	< 1	< 1
Dibutylchlorendate (surr.)	1	%	97	71	105	118
Tetrachloro-m-xylene (surr.)	1	%	72	78	74	83
Polychlorinated Biphenyls (PCB)						
Aroclor-1016	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aroclor-1232	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aroclor-1242	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aroclor-1248	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aroclor-1254	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aroclor-1260	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PCB	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibutylchlorendate (surr.)	1	%	97	71	105	118
Conductivity (1:5 aqueous extract at 25°C)	5	uS/cm	76	-	-	-
pH (1:5 Aqueous extract)	0.1	units	8.9	-	-	-
% Moisture	0.1	%	3.6	17	11	17

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC081 0.2-0.3 Soil S14-Ja03588 Jan 08, 2014	FC081 0.8-1.0 Soil S14-Ja03589 Jan 08, 2014	FC082 0.2-0.3 Soil S14-Ja03591 Jan 08, 2014	FC082 1.8-2.0 Soil S14-Ja03593 Jan 08, 2014
Heavy Metals						
Arsenic	2	mg/kg	2.6	< 2	4.2	4.7
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	10.0	12	5.4
Copper	5	mg/kg	150	8.9	100	35
Lead	5	mg/kg	22	11	160	24
Mercury	0.05	mg/kg	< 0.05	< 0.05	0.23	0.06
Nickel	5	mg/kg	6.5	< 5	11	< 5
Zinc	5	mg/kg	100	16	180	12

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC082 2.8-3.0 Soil S14-Ja03594 Jan 08, 2014	FC097 0.2-0.3 Soil S14-Ja03596 Jan 08, 2014	FC097 1.3-1.5 Soil S14-Ja03598 Jan 08, 2014	FC098 0.2-0.3 Soil S14-Ja03599 Jan 08, 2014
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Xylenes - Total	0.3	mg/kg	< 0.3	< 0.3	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	114	113	-	116
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	0.7	< 0.5	0.6
Benzo(a)pyrene	0.5	mg/kg	< 0.5	0.8	< 0.5	0.6
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	0.6	< 0.5	0.6
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	0.9	< 0.5	0.7
Chrysene	0.5	mg/kg	< 0.5	0.7	< 0.5	0.6
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	1.3	< 0.5	1.3

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC082 2.8-3.0 Soil S14-Ja03594 Jan 08, 2014	FC097 0.2-0.3 Soil S14-Ja03596 Jan 08, 2014	FC097 1.3-1.5 Soil S14-Ja03598 Jan 08, 2014	FC098 0.2-0.3 Soil S14-Ja03599 Jan 08, 2014
Polycyclic Aromatic Hydrocarbons						
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	0.6	< 0.5	0.9
Pyrene	0.5	mg/kg	< 0.5	1.3	< 0.5	1.3
Total PAH	0.5	mg/kg	< 0.5	6.9	< 0.5	6.6
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	< 0.5	1.0	< 0.5	0.8
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	0.6	1.3	0.6	1.1
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	1.2	1.5	1.2	1.4
2-Fluorobiphenyl (surr.)	1	%	85	87	85	85
p-Terphenyl-d14 (surr.)	1	%	99	100	100	98
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	< 0.05
a-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
Aldrin	0.05	mg/kg	-	< 0.05	-	< 0.05
b-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
d-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
Dieldrin	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan I	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan II	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin ketone	0.05	mg/kg	-	< 0.05	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	< 0.05	-	< 0.05
Heptachlor	0.05	mg/kg	-	< 0.05	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	< 0.05
Methoxychlor	0.2	mg/kg	-	< 0.2	-	< 0.2
Toxaphene	1	mg/kg	-	< 1	-	< 1
Dibutylchlorendate (surr.)	1	%	-	129	-	118
Tetrachloro-m-xylene (surr.)	1	%	-	72	-	73
Polychlorinated Biphenyls (PCB)						
Aroclor-1016	0.5	mg/kg	-	< 0.5	-	< 0.5
Aroclor-1232	0.5	mg/kg	-	< 0.5	-	< 0.5
Aroclor-1242	0.5	mg/kg	-	< 0.5	-	< 0.5
Aroclor-1248	0.5	mg/kg	-	< 0.5	-	< 0.5
Aroclor-1254	0.5	mg/kg	-	< 0.5	-	< 0.5
Aroclor-1260	0.5	mg/kg	-	< 0.5	-	< 0.5
Total PCB	0.5	mg/kg	-	< 0.5	-	< 0.5
Dibutylchlorendate (surr.)	1	%	-	129	-	118
Conductivity (1:5 aqueous extract at 25°C)	5	uS/cm	-	310	-	170
pH (1:5 Aqueous extract)	0.1	units	-	8.3	-	7.7
% Moisture	0.1	%	24	13	8.7	10

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC082 2.8-3.0 Soil S14-Ja03594 Jan 08, 2014	FC097 0.2-0.3 Soil S14-Ja03596 Jan 08, 2014	FC097 1.3-1.5 Soil S14-Ja03598 Jan 08, 2014	FC098 0.2-0.3 Soil S14-Ja03599 Jan 08, 2014
Heavy Metals						
Arsenic	2	mg/kg	25	4.3	< 2	5.6
Cadmium	0.4	mg/kg	0.6	0.5	< 0.4	< 0.4
Chromium	5	mg/kg	13	12	38	8.8
Copper	5	mg/kg	77	110	26	120
Lead	5	mg/kg	46	200	19	110
Mercury	0.05	mg/kg	0.07	0.37	< 0.05	0.30
Nickel	5	mg/kg	14	14	36	13
Zinc	5	mg/kg	71	170	71	180

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Jan 14, 2014	14 Day
- Method: E004 Petroleum Hydrocarbons (TPH)			
BTEX	Sydney	Jan 14, 2014	14 Day
- Method: E029/E016 BTEX			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jan 14, 2014	14 Day
- Method: LM-LTM-ORG2010			
Polycyclic Aromatic Hydrocarbons	Sydney	Jan 14, 2014	14 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Organochlorine Pesticides	Sydney	Jan 14, 2014	14 Day
- Method: E013 Organochlorine Pesticides (OC)			
Polychlorinated Biphenyls (PCB)	Sydney	Jan 14, 2014	28 Day
- Method: E013 Polychlorinated Biphenyls (PCB)			
Metals M8	Sydney	Jan 14, 2014	28 Day
- Method: E022 Acid Extractable metals in Soils & E026 Mercury			
Conductivity (1:5 aqueous extract at 25°C)	Sydney	Jan 15, 2014	7 Day
- Method: E032.2 Electrical Conductivity (EC)			
pH (1:5 Aqueous extract)	Sydney	Jan 15, 2014	7 Day
- Method: E018.2 pH			
% Moisture	Sydney	Jan 14, 2014	28 Day
- Method: E005 Moisture Content			

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Brisbane
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NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: GREEN SQUARE BLOCK 8C 43182

Order No.:
Report #: 405434
Phone: 02 8245 0300
Fax:

Received: Jan 13, 2014 5:00 PM
Due: Jan 21, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Total Recoverable Hydrocarbons	JBS&G Suite 2
Laboratory where analysis is conducted													
Melbourne Laboratory - NATA Site # 1254 & 14271													
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794													
External Laboratory													
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**									
FC078 0.1-0.2	Jan 08, 2014		Soil	S14-Ja03581	X	X		X					X
FC078 2.0-2.2	Jan 08, 2014		Soil	S14-Ja03582	X								X
FC078 3.0-3.2	Jan 08, 2014		Soil	S14-Ja03583			X						
FC079 0.1-0.2	Jan 08, 2014		Soil	S14-Ja03584	X	X		X					X
FC079 0.5-0.8	Jan 08, 2014		Soil	S14-Ja03585			X						
FC079 1.8-2.0	Jan 08, 2014		Soil	S14-Ja03586	X	X		X					X
FC079 3.5-3.7	Jan 08, 2014		Soil	S14-Ja03587			X						
FC081 0.2-0.3	Jan 08, 2014		Soil	S14-Ja03588	X	X		X					X
FC081 0.8-1.0	Jan 08, 2014		Soil	S14-Ja03589	X								X
FC081 2.8-3.0	Jan 08, 2014		Soil	S14-Ja03590			X						

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Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Total Recoverable Hydrocarbons	JBS&G Suite 2
Laboratory where analysis is conducted													
Melbourne Laboratory - NATA Site # 1254 & 14271													
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794													
External Laboratory													
FC082 0.2-0.3	Jan 08, 2014		Soil	S14-Ja03591	X								X
FC082 0.6-0.8	Jan 08, 2014		Soil	S14-Ja03592			X						
FC082 1.8-2.0	Jan 08, 2014		Soil	S14-Ja03593	X								X
FC082 2.8-3.0	Jan 08, 2014		Soil	S14-Ja03594	X				X	X	X	X	
FC082 3.5-3.7	Jan 08, 2014		Soil	S14-Ja03595			X						
FC097 0.2-0.3	Jan 08, 2014		Soil	S14-Ja03596	X	X		X					X
FC097 0.8-1.0	Jan 08, 2014		Soil	S14-Ja03597			X						
FC097 1.3-1.5	Jan 08, 2014		Soil	S14-Ja03598	X				X	X		X	
FC098 0.2-0.3	Jan 08, 2014		Soil	S14-Ja03599	X	X		X					X
FC098 0.5-0.8	Jan 08, 2014		Soil	S14-Ja03600			X						
FC098 3.0-3.2	Jan 08, 2014		Soil	S14-Ja03601			X						

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH C6-C10 less BTEX (F1)	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-BHC	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-BHC	mg/kg	< 0.05			0.05	Pass	
d-BHC	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-BHC (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.2			0.2	Pass	
Toxaphene	mg/kg	< 1			1	Pass	
Method Blank							
Polychlorinated Biphenyls (PCB)							
Aroclor-1016	mg/kg	< 0.5			0.5	Pass	
Aroclor-1232	mg/kg	< 0.5			0.5	Pass	
Aroclor-1242	mg/kg	< 0.5			0.5	Pass	
Aroclor-1248	mg/kg	< 0.5			0.5	Pass	
Aroclor-1254	mg/kg	< 0.5			0.5	Pass	
Aroclor-1260	mg/kg	< 0.5			0.5	Pass	
Total PCB	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	100			70-130	Pass	
TRH C10-C14	%	81			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	105			70-130	Pass	
Toluene	%	99			70-130	Pass	
Ethylbenzene	%	99			70-130	Pass	
m&p-Xylenes	%	100			70-130	Pass	
o-Xylene	%	109			70-130	Pass	
Xylenes - Total	%	103			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	82			70-130	Pass	
TRH C6-C10	%	103			70-130	Pass	
TRH >C10-C16	%	88			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	123			70-130	Pass	
Acenaphthylene	%	111			70-130	Pass	
Anthracene	%	124			70-130	Pass	
Benz(a)anthracene	%	120			70-130	Pass	
Benzo(a)pyrene	%	109			70-130	Pass	
Benzo(b&j)fluoranthene	%	111			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Benzo(g.h.i)perylene	%	96			70-130	Pass	
Benzo(k)fluoranthene	%	119			70-130	Pass	
Chrysene	%	121			70-130	Pass	
Dibenz(a.h)anthracene	%	89			70-130	Pass	
Fluoranthene	%	121			70-130	Pass	
Fluorene	%	124			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	93			70-130	Pass	
Naphthalene	%	122			70-130	Pass	
Phenanthrene	%	113			70-130	Pass	
Pyrene	%	118			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	96			70-130	Pass	
4.4'-DDD	%	102			70-130	Pass	
4.4'-DDE	%	100			70-130	Pass	
4.4'-DDT	%	87			70-130	Pass	
a-BHC	%	100			70-130	Pass	
Aldrin	%	102			70-130	Pass	
b-BHC	%	108			70-130	Pass	
d-BHC	%	104			70-130	Pass	
Dieldrin	%	97			70-130	Pass	
Endosulfan I	%	98			70-130	Pass	
Endosulfan II	%	96			70-130	Pass	
Endosulfan sulphate	%	98			70-130	Pass	
Endrin	%	90			70-130	Pass	
Endrin aldehyde	%	93			70-130	Pass	
Endrin ketone	%	88			70-130	Pass	
g-BHC (Lindane)	%	98			70-130	Pass	
Heptachlor	%	86			70-130	Pass	
Heptachlor epoxide	%	95			70-130	Pass	
Hexachlorobenzene	%	86			70-130	Pass	
Methoxychlor	%	84			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls (PCB)							
Aroclor-1260	%	93			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	89			70-130	Pass	
Cadmium	%	88			70-130	Pass	
Chromium	%	94			70-130	Pass	
Copper	%	99			70-130	Pass	
Lead	%	93			70-130	Pass	
Nickel	%	97			70-130	Pass	
Zinc	%	102			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S14-Ja03581	CP	%	87			70-130	Pass	
TRH C10-C14	S14-Ja03581	CP	%	73			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S14-Ja03581	CP	%	100			70-130	Pass	
Toluene	S14-Ja03581	CP	%	95			70-130	Pass	
Ethylbenzene	S14-Ja03581	CP	%	95			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
m&p-Xylenes	S14-Ja03581	CP	%	97			70-130	Pass	
o-Xylene	S14-Ja03581	CP	%	106			70-130	Pass	
Xylenes - Total	S14-Ja03581	CP	%	100			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S14-Ja03581	CP	%	94			70-130	Pass	
TRH C6-C10	S14-Ja03581	CP	%	97			70-130	Pass	
TRH >C10-C16	S14-Ja03581	CP	%	76			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S14-Ja03581	CP	%	120			70-130	Pass	
Acenaphthylene	S14-Ja03581	CP	%	106			70-130	Pass	
Anthracene	S14-Ja03581	CP	%	121			70-130	Pass	
Benz(a)anthracene	S14-Ja03581	CP	%	121			70-130	Pass	
Benzo(a)pyrene	S14-Ja03581	CP	%	115			70-130	Pass	
Benzo(b&j)fluoranthene	S14-Ja03581	CP	%	114			70-130	Pass	
Benzo(g.h.i)perylene	S14-Ja03581	CP	%	107			70-130	Pass	
Benzo(k)fluoranthene	S14-Ja03581	CP	%	121			70-130	Pass	
Chrysene	S14-Ja03581	CP	%	120			70-130	Pass	
Dibenz(a.h)anthracene	S14-Ja03581	CP	%	94			70-130	Pass	
Fluoranthene	S14-Ja03581	CP	%	125			70-130	Pass	
Fluorene	S14-Ja03581	CP	%	115			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja03581	CP	%	103			70-130	Pass	
Naphthalene	S14-Ja03581	CP	%	119			70-130	Pass	
Phenanthrene	S14-Ja03581	CP	%	117			70-130	Pass	
Pyrene	S14-Ja03581	CP	%	125			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S14-Ja03581	CP	%	109			70-130	Pass	
4.4'-DDD	S14-Ja03581	CP	%	129			70-130	Pass	
4.4'-DDE	S14-Ja03581	CP	%	111			70-130	Pass	
4.4'-DDT	S14-Ja03581	CP	%	90			70-130	Pass	
a-BHC	S14-Ja03581	CP	%	113			70-130	Pass	
Aldrin	S14-Ja03581	CP	%	112			70-130	Pass	
b-BHC	S14-Ja03581	CP	%	119			70-130	Pass	
d-BHC	S14-Ja03581	CP	%	118			70-130	Pass	
Dieldrin	S14-Ja03581	CP	%	107			70-130	Pass	
Endosulfan I	S14-Ja03581	CP	%	113			70-130	Pass	
Endosulfan II	S14-Ja03581	CP	%	107			70-130	Pass	
Endosulfan sulphate	S14-Ja03581	CP	%	103			70-130	Pass	
Endrin	S14-Ja03581	CP	%	107			70-130	Pass	
Endrin aldehyde	S14-Ja03581	CP	%	95			70-130	Pass	
Endrin ketone	S14-Ja03581	CP	%	97			70-130	Pass	
g-BHC (Lindane)	S14-Ja03581	CP	%	111			70-130	Pass	
Heptachlor	S14-Ja03581	CP	%	98			70-130	Pass	
Heptachlor epoxide	S14-Ja03581	CP	%	106			70-130	Pass	
Hexachlorobenzene	S14-Ja03581	CP	%	95			70-130	Pass	
Methoxychlor	S14-Ja03581	CP	%	99			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S14-Ja03581	CP	%	95			70-130	Pass	
Cadmium	S14-Ja03581	CP	%	95			70-130	Pass	
Chromium	S14-Ja03581	CP	%	93			70-130	Pass	
Copper	S14-Ja03581	CP	%	127			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Lead	S14-Ja03581	CP	%	75			70-130	Pass	
Mercury	S14-Ja03581	CP	%	87			70-130	Pass	
Nickel	S14-Ja03581	CP	%	93			70-130	Pass	
Zinc	S14-Ja03581	CP	%	120			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S14-Ja03598	CP	%	99			70-130	Pass	
TRH C10-C14	S14-Ja03598	CP	%	97			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S14-Ja03598	CP	%	105			70-130	Pass	
Toluene	S14-Ja03598	CP	%	99			70-130	Pass	
Ethylbenzene	S14-Ja03598	CP	%	99			70-130	Pass	
m&p-Xylenes	S14-Ja03598	CP	%	100			70-130	Pass	
o-Xylene	S14-Ja03598	CP	%	110			70-130	Pass	
Xylenes - Total	S14-Ja03598	CP	%	103			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S14-Ja03598	CP	%	71			70-130	Pass	
TRH C6-C10	S14-Ja03598	CP	%	100			70-130	Pass	
TRH >C10-C16	S14-Ja03598	CP	%	106			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S14-Ja03598	CP	%	119			70-130	Pass	
Acenaphthylene	S14-Ja03598	CP	%	107			70-130	Pass	
Anthracene	S14-Ja03598	CP	%	121			70-130	Pass	
Benz(a)anthracene	S14-Ja03598	CP	%	118			70-130	Pass	
Benzo(a)pyrene	S14-Ja03598	CP	%	116			70-130	Pass	
Benzo(b&j)fluoranthene	S14-Ja03598	CP	%	115			70-130	Pass	
Benzo(g.h.i)perylene	S14-Ja03598	CP	%	110			70-130	Pass	
Benzo(k)fluoranthene	S14-Ja03598	CP	%	123			70-130	Pass	
Chrysene	S14-Ja03598	CP	%	121			70-130	Pass	
Dibenz(a.h)anthracene	S14-Ja03598	CP	%	97			70-130	Pass	
Fluoranthene	S14-Ja03598	CP	%	121			70-130	Pass	
Fluorene	S14-Ja03598	CP	%	125			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja03598	CP	%	107			70-130	Pass	
Naphthalene	S14-Ja03598	CP	%	121			70-130	Pass	
Phenanthrene	S14-Ja03598	CP	%	114			70-130	Pass	
Pyrene	S14-Ja03598	CP	%	121			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Mercury	S14-Ja03598	CP	%	79			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S14-Ja03581	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S14-Ja03581	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S14-Ja03581	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S14-Ja03581	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S14-Ja03581	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S14-Ja03581	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total	S14-Ja03581	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	

Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S14-Ja03581	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S14-Ja03581	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S14-Ja03581	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S14-Ja03581	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S14-Ja03581	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S14-Ja03581	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S14-Ja03581	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S14-Ja03581	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S14-Ja03581	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S14-Ja03581	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S14-Ja03581	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S14-Ja03581	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S14-Ja03581	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S14-Ja03581	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S14-Ja03581	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja03581	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S14-Ja03581	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S14-Ja03581	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S14-Ja03581	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S14-Ja03581	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S14-Ja03581	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S14-Ja03581	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S14-Ja03581	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	S14-Ja03581	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S14-Ja03581	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	S14-Ja03581	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-BHC	S14-Ja03581	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S14-Ja03581	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S14-Ja03581	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S14-Ja03581	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S14-Ja03581	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S14-Ja03581	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S14-Ja03581	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S14-Ja03581	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	S14-Ja03581	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S14-Ja03581	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S14-Ja03581	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S14-Ja03581	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S14-Ja03581	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Toxaphene	S14-Ja03581	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls (PCB)				Result 1	Result 2	RPD			
Aroclor-1016	S14-Ja03581	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1232	S14-Ja03581	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1242	S14-Ja03581	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1248	S14-Ja03581	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1254	S14-Ja03581	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1260	S14-Ja03581	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
				Result 1	Result 2	RPD			
Conductivity (1:5 aqueous extract at 25°C)	S14-Ja03516	NCP	uS/cm	63	63	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S14-Ja03581	CP	mg/kg	5.3	9.1	52	30%	Fail	Q15
Cadmium	S14-Ja03581	CP	mg/kg	0.9	0.5	64	30%	Fail	Q15
Chromium	S14-Ja03581	CP	mg/kg	7.9	8.3	5.0	30%	Pass	
Copper	S14-Ja03581	CP	mg/kg	100	95	9.0	30%	Pass	
Lead	S14-Ja03581	CP	mg/kg	88	86	2.0	30%	Pass	
Mercury	S14-Ja03581	CP	mg/kg	0.05	< 0.05	40	30%	Fail	Q15
Nickel	S14-Ja03581	CP	mg/kg	8.4	7.8	8.0	30%	Pass	
Zinc	S14-Ja03581	CP	mg/kg	490	800	48	30%	Fail	Q15
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S14-Ja03598	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S14-Ja03598	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S14-Ja03598	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S14-Ja03598	CP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S14-Ja03598	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S14-Ja03598	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S14-Ja03598	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S14-Ja03598	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S14-Ja03598	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total	S14-Ja03598	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S14-Ja03598	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S14-Ja03598	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S14-Ja03598	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S14-Ja03598	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S14-Ja03598	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S14-Ja03598	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S14-Ja03598	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S14-Ja03598	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S14-Ja03598	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S14-Ja03598	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S14-Ja03598	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S14-Ja03598	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S14-Ja03598	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S14-Ja03598	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S14-Ja03598	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S14-Ja03598	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S14-Ja03598	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S14-Ja03598	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja03598	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S14-Ja03598	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S14-Ja03598	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S14-Ja03598	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Mercury	S14-Ja03598	CP	mg/kg	< 0.05	0.11	88	30%	Fail	Q15

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q15	The RPD reported passes Eurofins | mgt's Acceptance Criteria as stipulated in SOP 05. Refer to Glossary Page of this report for further details

Authorised By

Jean Heng	Client Services
Bob Symons	Senior Analyst-Inorganic (NSW)
James Norford	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)
Ryan Hamilton	Senior Analyst-Volatile (NSW)

Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

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eurofins | mgt
Unit F3-F6 Building F, Parkview Building
16 Mars Road, Lane Cove West
NSW 2066

CHAIN OF CUSTODY

#405434

JBS&G

PROJECT NO.: 47182
PROJECT NAME: Green Square Block BC
SEND REPORT TO: N Cussen SEND INVOICE TO: G Ng
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: Chris
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: ncussen@jbsg.com.au
QC LEVEL: NEPM (2013)

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	JB1	JB1T	JB1A	JB2	JB2A	B10	JB2/JBL	JB3/JBL	JB4	JBL	PH	EC	8 Metals	TRH	PAH	BTEX	OCP	PCB			NOTES:
FC078 0.1-0.2	Soil	8/1/14		Scr + Ice					X							X	X									
FC078 2.0-2.2									X																	
FC078 3.0-3.2																										
FC079 0.1-0.2									X							X	X									
FC079 0.8-0.8																										
FC079 1.8-2.0									X							X	X									
FC079 2.8-3.0																										
FC081 0.2-0.3									X							X	X									
FC081 0.8-1.0									X																	
FC081 2.8-3.0																										
FC082 0.2-0.3									X																	
FC082 0.6-0.8																										
FC082 1.8-2.0									X																	
FC082 2.8-3.0																		X	X	X	X					
FC082 3.5-3.7									X							X	X									
FC097 0.2-0.3																										
FC097 0.8-1.0									X							X	X									
FC097 1.3-1.5																		X	X	X						
FC098 0.2-0.3									X							X	X									

RELINQUISHED BY:
NAME: Nathan DATE: 10/1/14
OF: JBS&G

NAME: DATE:
OF:

METHOD OF SHIPMENT:
CONSIGNMENT NOTE NO.
TRANSPORT CO.

CONSIGNMENT NOTE NO.
TRANSPORT CO

RECEIVED BY:
NAME: Ellen WG DATE: 13/1/14
OF: EPImgt 1700

NAME: DATE:
OF:

FOR RECEIVING LAB USE ONLY:
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C

COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody – eurofins mgt

JB1 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1T - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos
JB2 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
B10 - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2/JBL - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)
JB3/JBL - TRH/BTEX/PAH/OCP/OPP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)/Asbestos
JB4 - TRH/BTEX/VOC
JBL - TCLP(PAH & 6 Metals)

eurofins | mgt
Unit F3-F6 Building F, Parkview Building
16 Mars Road, Lane Cove West
NSW 2066

CHAIN OF CUSTODY

#405434

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square Block C
SEND REPORT TO: ND Cussen SEND INVOICE TO:
DATE NEEDED BY: STD
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: CHM
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL:
QC LEVEL: NEPM (2013)

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	JBS&G SPECIFIC SUITES: JB1	JB1T	JB1A	JB2	JB2A	B10	JB2/JBL	JB3/JBL	JB4	JBL	NOTES:
FC098 0.5-0.8	Soil	8/1/14		Jar + Ice												
FC098 3.0-3.2	↓	↓		↓												

RELINQUISHED BY:
NAME: Nathan DATE: 10/1/14
OF: JBS&G
NAME: DATE:
OF:

METHOD OF SHIPMENT:
CONSIGNMENT NOTE NO.
TRANSPORT CO.
CONSIGNMENT NOTE NO.
TRANSPORT CO

RECEIVED BY:
NAME: Ellen WG DATE: 130114
OF: EFImgt 1700
NAME: DATE:
OF:

FOR RECEIVING LAB USE ONLY:
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - eurofins mgt

JB1 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1T - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos
JB2 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
B10 - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2/JBL - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)
JB3/JBL - TRH/BTEX/PAH/OCP/OPP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)/Asbestos
JB4 - TRH/BTEX/VOC
JBL - TCLP(PAH & 6 Metals)

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

SAMPLE RECEIPT ADVICE

Client:

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney NSW 2000

ph: 02 8245 0300
Fax: 02 8245 0399

Attention: Nathan Cussen

Sample log in details:

Your reference:	**43182, Green Square Block 8C**
Envirolab Reference:	**103554**
Date received:	15/01/14
Date results expected to be reported:	**22/01/14**

Samples received in appropriate condition for analysis:	YES
No. of samples provided	6 soil
Turnaround time requested:	Standard
Temperature on receipt (°C)	NA
Cooling Method:	None
Sampling Date Provided:	YES

Comments:

Samples will be held for 1 month for water samples and 2 months for soil samples from date of receipt of samples.

Contact details:

Please direct any queries to Aileen Hie or Jacinta Hurst
ph: 02 9910 6200 fax: 02 9910 6201
email: ahie@envirolabservices.com.au or jhurst@envirolabservices.com.au

Envirolab Services Pty Ltd
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12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

CERTIFICATE OF ANALYSIS 103554

Client:

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention: Nathan Cussen

Sample log in details:

Your Reference:	**43182, Green Square Block 8C**		
No. of samples:	6 soil		
Date samples received / completed instructions received	15/01/14	/	15/01/14

Analysis Details:

Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by: / Issue Date:	22/01/14	/	22/01/14
Date of Preliminary Report:	Not Issued		

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Results Approved By:

Jacinta Hurst
Laboratory Manager

Asbestos ID - soils WA					
Our Reference:	UNITS	103554-1	103554-3	103554-4	103554-6
Your Reference	----------	FC078	FC097	FC097	QC16
Depth	----------	4.0-4.2	2.0-2.2	3.0-3.2	-
Date Sampled		13/01/2014	13/01/2014	13/01/2014	13/01/2014
Type of sample		soil	soil	soil	soil
Date analysed	-	22/01/2014	22/01/2014	22/01/2014	22/01/2014
Sample mass tested	g	756.58g	941.88g	942.58g	853.98
Sample Description	-	Grey fine-grained soil & rocks	Beige fine-grained soil & rocks	Beige fine-grained soil & rocks	Grey fine-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected

Method ID	Methodology Summary
ASB-003	Asbestos ID - Minimum 500mL soil sample was analysed as recommended by "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.1g/kg as per AS4964-2004.

Report Comments:

This report is consistent with the analytical procedures and reporting recommendations in the Western Australian Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009.

Asbestos ID was analysed by Approved Identifier:	Paul Ching
Asbestos ID was authorised by Approved Signatory:	Matt Mansfield

INS: Insufficient sample for this test	PQL: Practical Quantitation Limit	NT: Not tested
NA: Test not required	RPD: Relative Percent Difference	NA: Test not required
<: Less than	>: Greater than	LCS: Laboratory Control Sample

Quality Control Definitions

Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

Duplicate: This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

Matrix Spike : A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

LCS (Laboratory Control Sample) : This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Surrogate Spike: Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.
Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.
Spikes for Physical and Aggregate Tests are not applicable.
For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.
Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for SVOC and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Envirolab Services Pty Ltd
12 Ashley Street
Chatswood
NSW 2067

Page 1 of 1

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square Block 8C
SEND REPORT TO: N Cussen SEND INVOICE TO: G Ng
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: Chris B
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: ncussen@jbsg.com.au
QC LEVEL: NEPM (2013)

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	COMBO SUITES: SOIL - 4	SOIL – 4L	SOIL – 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER – 1m	WATER – 2L	WATER – 3L	Asbestos	NOTES:
1	FC078 4.0-4.2	Soil	13.01.14		Bag											Y	
2	FC078 5.0-5.2																	
3	FC097 2.0-2.2															X		
4	FC097 3.0-3.2															X		
5	FC097 4.0-4.2																	
6	QC16															X		
*	QC16-A																	

Please send to Pat L

ENVIROLAB
Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph. (02) 9910 6200

Job No: 103554
Date Received: 15.1.14
Time Received: 16:30
Received by: BF
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Nathan DATE: 13.01.14	CONSIGNMENT NOTE NO.	NAME: Daniel FORD	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 15.1.14	
NAME: DATE:	CONSIGNMENT NOTE NO.	OF: ELS	COOLER TEMP ..... deg C
OF:	TRANSPORT CO	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
		OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Envirolab

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

PICKFORD & RHYDER CONSULTING PTY LTD
ABN 17 105 546 076
Occupational Hygiene Measurements and Solutions.

PO Box 1422 Lane Cove 1595
Rear - 244 Burns Bay Road
Lane Cove NSW Australia
Phone: (02) 9418 9151
Fax: (02) 9418 9150

21 January 2014

N. Cussen
JBS&G (NSW & WA) Pty Ltd
Level 1
50 Margaret Street
SYDNEY NSW 2000

Email: ncussen@jbsg.com.au,

CERTIFICATE OF ANALYSIS – ASBESTOS IDENTIFICATION

YOUR REFERENCE/JOB No: 43182
TYPE OF SAMPLES: Bulk sample - as received from Envirolab Services
SITE LOCATION: Green Square, Block 8C
DATE SAMPLED: 13 January 2014 **DATE RECEIVED:** 16 January 2014
OUR REFERENCE: 77802-ID

TEST METHOD: Soil samples examined by Stereomicroscopy and Polarized Light Microscopy (with Dispersion Staining) in accordance with AS 4964-2004: - 'Method for the qualitative identification of asbestos in bulk samples' as outlined in Laboratory Method ID/1. The Reporting Limit for the results in this Certificate is numerically equal to the lowest detection limit of 0.1 g/kg. Trace asbestos analysis has been conducted on each sample, which is generally designed to detect 'respirable' asbestos fibres (ie less than 3 micrometres in width) distributed throughout the sample.

Sample No	*Lab No*	*Sample Information*	*Analysis Result*	*Description*
QC16-A	77802	Soil sample as received	No asbestos detected	The sample was a grey soil with stones, of total approximate weight 837 g. No asbestos fibres were detected in the +2 mm fraction. No asbestos fibres were detected in a representative sub-sample of the –2 mm fraction. No asbestos fibres were found at the Reporting Limit of 0.1g/kg.

All sampling and site work has been undertaken by the client - the analytical procedures and results reported on this Certificate have been conducted by Pickford & Rhyder Consulting.

Sampling is not covered by the scope of accreditation.

Analysed and reported by:

Gary Conaty,
Approved Identifier and Signatory.

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Accreditation number 2515

77802

Envirolab Services Pty Ltd
12 Ashley Street
Chatswood
NSW 2067

For R&R

Page 1 of 1

JBS&G

CHAIN OF CUSTODY

PROJECT NO.: 43182
PROJECT NAME: Green Square Block 8C
SEND REPORT TO: N Cussen SEND INVOICE TO: G Ng
DATE NEEDED BY: STD TAT

LABORATORY BATCH NO.:
SAMPLERS: Chris D
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: ncussen@jbsg.com.au
QC LEVEL: NEPM (2013)

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	COMBO SUITES: SOIL - 4	SOIL – 4L	SOIL – 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER – 1m	WATER – 2L	WATER – 3L	Asbestos	NOTES:
QC16 - A	Soil	13-1-14		Bag												X	

RELINQUISHED BY:
NAME: Nathan DATE: 14 01 14
OF: JBS&G
NAME: AT DATE: 16/1/14
OF:

METHOD OF SHIPMENT:
CONSIGNMENT NOTE NO.
TRANSPORT CO.
CONSIGNMENT NOTE NO.
TRANSPORT CO

RECEIVED BY:
NAME:
DATE:
OF:
NAME: DATE:
OF:

FOR RECEIVING LAB USE ONLY:
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Envirolab

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

JM
16/1/14
9:30

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

SAMPLE RECEIPT ADVICE

Client:

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney NSW 2000

ph: 02 8245 0300
Fax: 02 8245 0399

Attention: Joanne Rosner, Nathan Cussen

Sample log in details:

Your reference:	**43182, Green Square Block 8C**
Envirolab Reference:	**103550**
Date received:	15/01/14
Date results expected to be reported:	**22/01/14**

Samples received in appropriate condition for analysis:	YES
No. of samples provided	1 soil
Turnaround time requested:	Standard
Temperature on receipt (°C)	NA
Cooling Method:	None
Sampling Date Provided:	YES

Comments:

Samples will be held for 1 month for water samples and 2 months for soil samples from date of receipt of samples.

Contact details:

Please direct any queries to Aileen Hie or Jacinta Hurst
ph: 02 9910 6200 fax: 02 9910 6201
email: ahie@envirolabservices.com.au or jhurst@envirolabservices.com.au

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

CERTIFICATE OF ANALYSIS 103550

Client:
JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention: Joanne Rosner, Nathan Cussen

Sample log in details:

Your Reference:	**43182, Green Square Block 8C**		
No. of samples:	1 soil		
Date samples received / completed instructions received	15/01/14	/	15/01/14

Analysis Details:
Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by: / Issue Date:	22/01/14	/	21/01/14
Date of Preliminary Report:	Not issued		

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Results Approved By:

Jacinta Hurst
Laboratory Manager

NATA
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VOCs in soil Our Reference: Your Reference Date Sampled Type of sample	UNITS ---------- ----------	 103550-1 QC16-A 13/01/2014 soil
Date extracted	-	17/01/2014
Date analysed	-	18/01/2014
Dichlorodifluoromethane	mg/kg	<1
Chloromethane	mg/kg	<1
Vinyl Chloride	mg/kg	<1
Bromomethane	mg/kg	<1
Chloroethane	mg/kg	<1
Trichlorofluoromethane	mg/kg	<1
1,1-Dichloroethene	mg/kg	<1
trans-1,2-dichloroethene	mg/kg	<1
1,1-dichloroethane	mg/kg	<1
cis-1,2-dichloroethene	mg/kg	<1
bromochloromethane	mg/kg	<1
chloroform	mg/kg	<1
2,2-dichloropropane	mg/kg	<1
1,2-dichloroethane	mg/kg	<1
1,1,1-trichloroethane	mg/kg	<1
1,1-dichloropropene	mg/kg	<1
Cyclohexane	mg/kg	<1
carbon tetrachloride	mg/kg	<1
Benzene	mg/kg	<0.2
dibromomethane	mg/kg	<1
1,2-dichloropropane	mg/kg	<1
trichloroethene	mg/kg	<1
bromodichloromethane	mg/kg	<1
trans-1,3-dichloropropene	mg/kg	<1
cis-1,3-dichloropropene	mg/kg	<1
1,1,2-trichloroethane	mg/kg	<1
Toluene	mg/kg	<0.5
1,3-dichloropropane	mg/kg	<1
dibromochloromethane	mg/kg	<1
1,2-dibromoethane	mg/kg	<1
tetrachloroethene	mg/kg	<1
1,1,1,2-tetrachloroethane	mg/kg	<1
chlorobenzene	mg/kg	<1
Ethylbenzene	mg/kg	<1
bromoform	mg/kg	<1
m+p-xylene	mg/kg	<2
styrene	mg/kg	<1
1,1,2,2-tetrachloroethane	mg/kg	<1
o-Xylene	mg/kg	<1
1,2,3-trichloropropane	mg/kg	<1

VOCs in soil		
Our Reference:	UNITS	103550-1
Your Reference	----------	QC16-A
Date Sampled	----------	13/01/2014
Type of sample		soil
isopropylbenzene	mg/kg	<1
bromobenzene	mg/kg	<1
n-propyl benzene	mg/kg	<1
2-chlorotoluene	mg/kg	<1
4-chlorotoluene	mg/kg	<1
1,3,5-trimethyl benzene	mg/kg	<1
tert-butyl benzene	mg/kg	<1
1,2,4-trimethyl benzene	mg/kg	<1
1,3-dichlorobenzene	mg/kg	<1
sec-butyl benzene	mg/kg	<1
1,4-dichlorobenzene	mg/kg	<1
4-isopropyl toluene	mg/kg	<1
1,2-dichlorobenzene	mg/kg	<1
n-butyl benzene	mg/kg	<1
1,2-dibromo-3-chloropropane	mg/kg	<1
1,2,4-trichlorobenzene	mg/kg	<1
hexachlorobutadiene	mg/kg	<1
1,2,3-trichlorobenzene	mg/kg	<1
Surrogate Dibromofluorometha	%	98
Surrogate aaa-Trifluorotoluene	%	80
Surrogate Toluene-d_8	%	96
Surrogate 4-Bromofluorobenzene	%	104

TRH in Soil (C6-C9) NEPM		
Our Reference:	UNITS	103550-1
Your Reference	----------	QC16-A
Date Sampled	----------	13/01/2014
Type of sample		soil
Date extracted	-	17/01/2014
Date analysed	-	18/01/2014
$TRHC_6 - C_9$	mg/kg	<25
$TRHC_6 - C_{10}$	mg/kg	<25
Surrogate aaa-Trifluorotoluene	%	80

svTRH (C10-C40) in Soil		
Our Reference:	UNITS	103550-1
Your Reference	----------	QC16-A
Date Sampled	----------	13/01/2014
Type of sample		soil
Date extracted	-	17/01/2014
Date analysed	-	21/01/2014
TRHC$_{10}$ - C$_{14}$	mg/kg	<50
TRHC$_{15}$ - C$_{28}$	mg/kg	<100
TRHC$_{29}$ - C$_{36}$	mg/kg	<100
TRH>C$_{10}$-C$_{16}$	mg/kg	<50
TRH>C$_{16}$-C$_{34}$	mg/kg	<100
TRH>C$_{34}$-C$_{40}$	mg/kg	<100
Surrogate o-Terphenyl	%	105

PAHs in Soil		
Our Reference:	UNITS	103550-1
Your Reference	----------	QC16-A
Date Sampled	----------	13/01/2014
Type of sample		soil
Date extracted	-	17/01/2014
Date analysed	-	18/01/2014
Naphthalene	mg/kg	<0.1
Acenaphthylene	mg/kg	<0.1
Acenaphthene	mg/kg	<0.1
Fluorene	mg/kg	<0.1
Phenanthrene	mg/kg	<0.1
Anthracene	mg/kg	<0.1
Fluoranthene	mg/kg	<0.1
Pyrene	mg/kg	<0.1
Benzo(a)anthracene	mg/kg	<0.1
Chrysene	mg/kg	<0.1
Benzo(b+k)fluoranthene	mg/kg	<0.2
Benzo(a)pyrene	mg/kg	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1
Benzo(a)pyrene TEQ NEPM B1	mg/kg	<0.5
Total +ve PAH's	mg/kg	NIL (+)VE
Surrogate p-Terphenyl-d14	%	111

Acid Extractable metals in soil		
Our Reference:	UNITS	103550-1
Your Reference	----------	QC16-A
Date Sampled	----------	13/01/2014
Type of sample		soil
Date digested	-	17/01/2014
Date analysed	-	17/01/2014
Arsenic	mg/kg	10
Cadmium	mg/kg	<0.4
Chromium	mg/kg	7
Copper	mg/kg	40
Lead	mg/kg	12
Mercury	mg/kg	0.1
Nickel	mg/kg	5
Zinc	mg/kg	20

Moisture		
Our Reference:	UNITS	103550-1
Your Reference	----------	QC16-A
Date Sampled	----------	13/01/2014
Type of sample		soil
Date prepared	-	17/01/2014
Date analysed	-	20/01/2014
Moisture	%	13

Method ID	Methodology Summary
Org-014	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-016	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-003	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note Naphthalene is determined from the VOC analysis.
Org-012 subset	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.
Metals-020 ICP-AES	Determination of various metals by ICP-AES.
Metals-021 CV-AAS	Determination of Mercury by Cold Vapour AAS.
Inorg-008	Moisture content determined by heating at 105+/-5 deg C for a minimum of 12 hours.

QUALITY CONTROL VOCs in soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base II Duplicate II %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			17/01/2014	[NT]	[NT]	LCS-5	17/01/2014
Date analysed	-			18/01/2014	[NT]	[NT]	LCS-5	18/01/2014
Dichlorodifluoromethane	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
Chloromethane	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
Vinyl Chloride	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
Bromomethane	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
Chloroethane	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
Trichlorofluoromethane	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
1,1-Dichloroethene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
trans-1,2-dichloroethene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
1,1-dichloroethane	mg/kg	1	Org-014	<1	[NT]	[NT]	LCS-5	99%
cis-1,2-dichloroethene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
bromochloromethane	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
chloroform	mg/kg	1	Org-014	<1	[NT]	[NT]	LCS-5	97%
2,2-dichloropropane	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
1,2-dichloroethane	mg/kg	1	Org-014	<1	[NT]	[NT]	LCS-5	96%
1,1,1-trichloroethane	mg/kg	1	Org-014	<1	[NT]	[NT]	LCS-5	100%
1,1-dichloropropene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
Cyclohexane	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
carbon tetrachloride	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
Benzene	mg/kg	0.2	Org-014	<0.2	[NT]	[NT]	[NR]	[NR]
dibromomethane	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
1,2-dichloropropane	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
trichloroethene	mg/kg	1	Org-014	<1	[NT]	[NT]	LCS-5	92%
bromodichloromethane	mg/kg	1	Org-014	<1	[NT]	[NT]	LCS-5	91%
trans-1,3-dichloropropene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
cis-1,3-dichloropropene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
1,1,2-trichloroethane	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
Toluene	mg/kg	0.5	Org-014	<0.5	[NT]	[NT]	[NR]	[NR]
1,3-dichloropropane	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
dibromochloromethane	mg/kg	1	Org-014	<1	[NT]	[NT]	LCS-5	95%
1,2-dibromoethane	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
tetrachloroethene	mg/kg	1	Org-014	<1	[NT]	[NT]	LCS-5	97%
1,1,1,2-tetrachloroethane	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
chlorobenzene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
Ethylbenzene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
bromoform	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
m+p-xylene	mg/kg	2	Org-014	<2	[NT]	[NT]	[NR]	[NR]
styrene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
1,1,2,2-tetrachloroethane	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
o-Xylene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
1,2,3-trichloropropane	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]

QUALITY CONTROL VOCs in soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
isopropylbenzene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
bromobenzene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
n-propyl benzene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
2-chlorotoluene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
4-chlorotoluene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
1,3,5-trimethyl benzene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
tert-butyl benzene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
1,2,4-trimethyl benzene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
1,3-dichlorobenzene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
sec-butyl benzene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
1,4-dichlorobenzene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
4-isopropyl toluene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
1,2-dichlorobenzene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
n-butyl benzene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
1,2-dibromo-3-chloropropane	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
1,2,4-trichlorobenzene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
hexachlorobutadiene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
1,2,3-trichlorobenzene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
Surrogate Dibromofluorometha	%		Org-014	96	[NT]	[NT]	LCS-5	99%
Surrogate aaa-Trifluorotoluene	%		Org-014	93	[NT]	[NT]	LCS-5	94%
Surrogate Toluene-d_8	%		Org-014	97	[NT]	[NT]	LCS-5	96%
Surrogate 4-Bromofluorobenzene	%		Org-014	104	[NT]	[NT]	LCS-5	105%

QUALITY CONTROL TRH in Soil (C6-C9) NEPM	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			17/01/2014	[NT]	[NT]	LCS-5	17/01/2014
Date analysed	-			18/01/2014	[NT]	[NT]	LCS-5	18/01/2014
TRHC$_{6}$ - C$_{9}$	mg/kg	25	Org-016	<25	[NT]	[NT]	LCS-5	94%
TRHC$_{6}$ - C$_{10}$	mg/kg	25	Org-016	<25	[NT]	[NT]	LCS-5	94%
Surrogate aaa-Trifluorotoluene	%		Org-016	93	[NT]	[NT]	LCS-5	95%
QUALITY CONTROL svTRH (C10-C40) in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			17/01/2014	[NT]	[NT]	LCS-5	17/01/2014
Date analysed	-			21/01/2014	[NT]	[NT]	LCS-5	21/01/2014
TRHC$_{10}$ - C$_{14}$	mg/kg	50	Org-003	<50	[NT]	[NT]	LCS-5	89%
TRHC$_{15}$ - C$_{28}$	mg/kg	100	Org-003	<100	[NT]	[NT]	LCS-5	100%
TRHC$_{29}$ - C$_{36}$	mg/kg	100	Org-003	<100	[NT]	[NT]	LCS-5	92%
TRH>C$_{10}$-C$_{16}$	mg/kg	50	Org-003	<50	[NT]	[NT]	LCS-5	89%
TRH>C$_{16}$-C$_{34}$	mg/kg	100	Org-003	<100	[NT]	[NT]	LCS-5	100%
TRH>C$_{34}$-C$_{40}$	mg/kg	100	Org-003	<100	[NT]	[NT]	LCS-5	92%
Surrogate o-Terphenyl	%		Org-003	99	[NT]	[NT]	LCS-5	91%
QUALITY CONTROL PAHs in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			17/01/2014	[NT]	[NT]	LCS-5	17/01/2014
Date analysed	-			18/01/2014	[NT]	[NT]	LCS-5	18/01/2014
Naphthalene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-5	111%
Acenaphthylene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Acenaphthene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Fluorene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-5	113%
Phenanthrene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-5	117%
Anthracene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Fluoranthene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-5	113%
Pyrene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-5	120%
Benzo(a)anthracene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Chrysene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-5	105%

QUALITY CONTROL PAHs in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base II Duplicate II %RPD	Spike Sm#	Spike % Recovery
Benzo(b+k)fluoranthene	mg/kg	0.2	Org-012 subset	<0.2	[NT]	[NT]	[NR]	[NR]
Benzo(a)pyrene	mg/kg	0.05	Org-012 subset	<0.05	[NT]	[NT]	LCS-5	106%
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Surrogate p-Terphenyl-d14	%		Org-012 subset	103	[NT]	[NT]	LCS-5	110%
QUALITY CONTROL Acid Extractable metals in soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base II Duplicate II %RPD	Spike Sm#	Spike % Recovery
Date digested	-			17/01/2014	[NT]	[NT]	LCS-9	17/01/2014
Date analysed	-			17/01/2014	[NT]	[NT]	LCS-9	17/01/2014
Arsenic	mg/kg	4	Metals-020 ICP-AES	<4	[NT]	[NT]	LCS-9	98%
Cadmium	mg/kg	0.4	Metals-020 ICP-AES	<0.4	[NT]	[NT]	LCS-9	105%
Chromium	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-9	103%
Copper	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-9	101%
Lead	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-9	99%
Mercury	mg/kg	0.1	Metals-021 CV-AAS	<0.1	[NT]	[NT]	LCS-9	102%
Nickel	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-9	102%
Zinc	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-9	102%

QUALITY CONTROL Moisture	UNITS	PQL	METHOD	Blank
Date prepared	-			[NT]
Date analysed	-			[NT]
Moisture	%	0.1	Inorg-008	[NT]

Report Comments:

Asbestos ID was analysed by Approved Identifier:	Not applicable for this job
Asbestos ID was authorised by Approved Signatory:	Not applicable for this job

INS: Insufficient sample for this test	PQL: Practical Quantitation Limit	NT: Not tested
NA: Test not required	RPD: Relative Percent Difference	NA: Test not required
<: Less than	>: Greater than	LCS: Laboratory Control Sample

Quality Control Definitions

Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

Duplicate: This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

Matrix Spike : A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

LCS (Laboratory Control Sample) : This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Surrogate Spike: Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.
Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.
Spikes for Physical and Aggregate Tests are not applicable.
For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.
Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for SVOC and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Envirolab Services Pty Ltd
12 Ashley Street
Chatswood
NSW 2067

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square Block 8c
SEND REPORT TO: N Cussen SEND INVOICE TO: G Ng
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: Chris A
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: ncussen@jbsg.com.au
QC LEVEL: NEPM (2013)

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	COMBO SUITES: SOIL - 4	SOIL – 4L	SOIL – 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER – 1m	WATER – 2L	WATER – 3L	8 Metals	TPH	PAH	VOCs	NOTES:
QC16-A	Soil	13/1/14		Jar + Ice												X	X	X	X	

ENVIROLAB

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 103550
Date Received: Mon 15/01
Time Received: 15:30
Received by: SJJ
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Nathan DATE: 13/1/14 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: Sophie DATE: OF: ELS	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C
NAME: DATE: OF:	CONSIGNMENT NOTE NO. TRANSPORT CO	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Envirolab

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

SAMPLE RECEIPT ADVICE

Client:

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney NSW 2000

ph: 02 8245 0300
Fax: 02 8245 0399

Attention: Joanne Rosner, Nathan Cussen

Sample log in details:

Your reference:	**43182, Green Square Block 8c**
Envirolab Reference:	**103473**
Date received:	14/01/14
Date results expected to be reported:	**21/01/14**

Samples received in appropriate condition for analysis:	YES
No. of samples provided	22 soils
Turnaround time requested:	Standard
Temperature on receipt (°C)	NA
Cooling Method:	None
Sampling Date Provided:	YES

Comments:

Samples will be held for 1 month for water samples and 2 months for soil samples from date of receipt of samples.

EXTRA FC079 2.8-3.0

Contact details:

Please direct any queries to Aileen Hie or Jacinta Hurst
ph: 02 9910 6200 fax: 02 9910 6201
email: ahie@envirolabservices.com.au or jhurst@envirolabservices.com.au

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
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enquiries@envirolabservices.com.au
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CERTIFICATE OF ANALYSIS 103473

Client:
JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention: Joanne Rosner, Nathan Cussen

Sample log in details:

Your Reference:	**43182, Green Square Block 8c**		
No. of samples:	22 soils		
Date samples received / completed instructions received	14/01/14	/	14/01/14

Analysis Details:
Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by: / Issue Date:	21/01/14	/	17/01/14
Date of Preliminary Report:	Not Issued		

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Accredited for compliance with ISO/IEC 17025. **Tests not covered by NATA are denoted with *.**

Results Approved By:

Jacinta Hurst
Laboratory Manager

Asbestos ID - soils WA						
Our Reference:	UNITS	103473-1	103473-4	103473-6	103473-8	103473-11
Your Reference	----------	FC078	FC079	FC079	FC081	FC082
Depth	----------	0.1-0.2	0.1-0.2	1.8-2.0	0.2-0.3	0.2-0.3
Date Sampled		08/01/2014	08/01/2014	08/01/2014	08/01/2014	08/01/2014
Type of sample		soil	soil	soil	soil	soil
Date analysed	-	16/01/2014	16/01/2014	16/01/2014	16/01/2014	16/01/2014
Sample mass tested	g	677.21g	739.40g	684.15g	802.60g	695.35g
Sample Description	-	Grey-red coarse-grained soil & rocks	Brown-grey coarse-grained soil & rocks	Grey coarse-grained soil & rocks	Grey coarse-grained soil & rocks	Grey coarse-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected

Asbestos ID - soils WA					
Our Reference:	UNITS	103473-13	103473-16	103473-18	103473-19
Your Reference	----------	FC082	FC097	FC097	FC098
Depth	----------	1.8-2.0	0.2-0.3	1.3-1.5	0.2-0.3
Date Sampled		08/01/2014	08/01/2014	08/01/2014	08/01/2014
Type of sample		soil	soil	soil	soil
Date analysed	-	16/01/2014	16/01/2014	16/01/2014	16/01/2014
Sample mass tested	g	532.35g	763.39g	778.00g	790.21g
Sample Description	-	Grey coarse-grained soil & rocks	Grey coarse-grained soil & rocks	Grey coarse-grained soil & rocks	Grey coarse-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected

Method ID	Methodology Summary
ASB-003	Asbestos ID - Minimum 500mL soil sample was analysed as recommended by "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.1g/kg as per AS4964-2004.

Report Comments:

This report is consistent with the analytical procedures and reporting recommendations in the Western Australian Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009.

Asbestos ID was analysed by Approved Identifier: Paul Ching
Asbestos ID was authorised by Approved Signatory: Paul Ching

INS: Insufficient sample for this test
NA: Test not required
<: Less than
PQL: Practical Quantitation Limit
RPD: Relative Percent Difference
>: Greater than
NT: Not tested
NA: Test not required
LCS: Laboratory Control Sample

Quality Control Definitions

Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

Duplicate: This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

Matrix Spike : A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

LCS (Laboratory Control Sample) : This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Surrogate Spike: Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.
Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.
Spikes for Physical and Aggregate Tests are not applicable.
For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.
Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for SVOC and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

12 Ashley Street
Chatswood
NSW 2067

Page 1 of 2

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square Block 8C
SEND REPORT TO: N Cusson SEND INVOICE TO: G Ng
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: Chris D
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: ncusson@jbsg.com.au
QC LEVEL: NEPM (2013)

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	COMBO SUITES: SOIL-4	SOIL-4L	SOIL-4A	SOIL-5	SOIL 5A	SOIL 5B	SOIL-12	WATER-1m	WATER-2L	WATER-3L	Asbestos (ASH)	NOTES:
1	FC078 0.1-0.2	Soil	9/1/14		Bag												X	
2	FC078 2.0-2.2																	
3	FC078 3.0-3.2																	
4	FC079 0.1-0.2																	
5	FC079 0.5-0.8																X	
6	FC079 1.8-2.0																	
7	FC079 3.5-3.7																X	
8	FC081 0.2-0.3																	
9	FC081 0.8-1.0																	
10	FC081 2.8-3.0																X	
11	FC082 0.2-0.3																	
12	FC082 0.6-0.8																	
13	FC082 1.8-2.0																X	
14	FC082 2.8-3.0																	
15	FC082 3.5-3.7																	
16	FC097 0.2-0.3																	
17	FC097 0.8-1.0																	
18	FC097 1.3-1.5																X	

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200
Job No: 103493
Date Received: 14/1/14
Time Received: 9am
Received by: JHC
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Netha DATE: 13/1/14	CONSIGNMENT NOTE NO.	NAME: Paul Chiu	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 14/1/14 9:00	
NAME: DATE:	CONSIGNMENT NOTE NO.	OF: EnS	COOLER TEMP ..... deg C
OF:	TRANSPORT CO	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
		OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Envirolab

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

12 Ashley Street
Chatswood
NSW 2067

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square Block 8L
SEND REPORT TO: N Cusson SEND INVOICE TO: G Ng
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: Chris B
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: NCusson@jbsg.com.au
QC LEVEL: NEPM (2013)

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	COMBO SUITES: SOIL - 4	SOIL – 4L	SOIL – 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER – 1m	WATER – 2L	WATER – 3L	Asbestos (Ad)	NOTES:
19	FC098 0.2 – 0.3	Soil	9/1/14		Bag												X	
20	FC098 0.5 – 0.8	↓	↓		↓													
21	FC098 3.0 – 3.2	↓	↓		↓													
ATA→ 22	FC079 2.8 – 3.0	soil	9/1/14		Bag													

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Nathan DATE: 10/1/14	CONSIGNMENT NOTE NO.	NAME: Paul Ching DATE: 14/1/14 9:00	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	OF: JBS	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Envirolab

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

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ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

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Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Sample Receipt Advice

Company name: **JBS & G (NSW & WA) Pty Ltd**

Contact name: Nathan Cussen
Client job number: ADDITIONAL: GREEN SQUARE BLOCK 8B 43182
COC number: Not provided
Turn around time: 5 Day
Date/Time received: Jan 22, 2014 10:00 AM
Eurofins | mgt reference: **406273**

Sample information

☑ A detailed list of analytes logged into our LIMS, is included in the attached summary table.

☑ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt Sample Receipt : 7 degrees Celsius.

☑ All samples have been received as described on the above COC.

☑ COC has been completed correctly.

☑ Attempt to chill was evident.

☑ Appropriately preserved sample containers have been used.

☑ All samples were received in good condition.

☑ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.

☑ Organic samples had Teflon liners.

☒ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Notes

Additional from 405428

Contact notes

If you have any questions with respect to these samples please contact:

Jean Heng on Phone : (+61) (2) 9900 8400 or by e.mail: JeanHeng@eurofins.com.au

Results will be delivered electronically via e.mail to Nathan Cussen - ncussen@jbsg.com.au.

Eurofins | mgt Sample Receipt

eurofins | mgt

ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

Melbourne
3-5 Kingston Town Close
Oakleigh VIC 3166
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F6, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Order No.:
Report #: 406273
Phone: 02 8245 0300
Fax:

Received: Jan 22, 2014 10:00 AM
Due: Jan 30, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Client Job No.: ADDITIONAL: GREEN SQUARE BLOCK 8B 43182

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Toxicity Characteristic Leaching Procedure (TCLP)	Metals M8
Laboratory where analysis is conducted							
Melbourne Laboratory - NATA Site # 1254 & 14271							
Sydney Laboratory - NATA Site # 18217					X	X	X
Brisbane Laboratory - NATA Site # 20794							
External Laboratory							
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**			
FC073 1.0-1.2	Jan 08, 2014		TCLP	S14-Ja09836	X	X	X
FC074 0.2-0.3	Jan 08, 2014		TCLP	S14-Ja09837	X	X	X

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Certificate of Analysis

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Nathan Cussen**

Report **406273-L**
Client Reference ADDITIONAL: GREEN SQUARE BLOCK 8B 43182
Received Date Jan 22, 2014

Client Sample ID **Sample Matrix** **Eurofins | mgt Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**FC073 1.0-1.2** **TCLP** **S14-Ja09836** **Jan 08, 2014**	**FC074 0.2-0.3** **TCLP** **S14-Ja09837** **Jan 08, 2014**
Heavy Metals				
Arsenic	0.01	mg/L	< 0.01	< 0.01
Cadmium	0.005	mg/L	0.012	0.008
Chromium	0.05	mg/L	< 0.05	< 0.05
Copper	0.05	mg/L	< 0.05	0.07
Lead	0.01	mg/L	0.13	0.03
Mercury	0.001	mg/L	< 0.001	< 0.001
Nickel	0.05	mg/L	< 0.05	< 0.05
Zinc	0.05	mg/L	4.8	2.6
% Moisture	0.1	%	15	17
Toxicity Characteristic Leaching Procedure (TCLP)				
Leachate Fluid[C01]		comment	1.0	1.0
pH (TCLP - HCl addition)	0.1	units	1.8	1.7
pH (TCLP - initial)	0.1	units	8.4	8.5
pH (TCLP - off)	0.1	units	5.2	5.2

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Metals M8	Sydney	Jan 23, 2014	28 Day
- Method: E022 Acid Extractable metals in Soils & E026 Mercury			
% Moisture	Sydney	Jan 23, 2014	0 Day
- Method: E005 Moisture Content			
Toxicity Characteristic Leaching Procedure (TCLP)	Sydney	Jan 23, 2014	0 Day
- Method: E019 TCLP Preparation			

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ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

Melbourne
3-5 Kingston Town Close
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NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name:	JBS & G (NSW & WA) Pty Ltd	**Order No.:**		**Received:**	Jan 22, 2014 10:00 AM
Address:	Level 1, 50 Margaret St Sydney NSW 2000	**Report #:**	406273	**Due:**	Jan 30, 2014
		Phone:	02 8245 0300	**Priority:**	5 Day
		Fax:		**Contact Name:**	Nathan Cussen
Client Job No.:	ADDITIONAL: GREEN SQUARE BLOCK 8B 43182				

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Toxicity Characteristic Leaching Procedure (TCLP)	Metals M8
Laboratory where analysis is conducted							
Melbourne Laboratory - NATA Site # 1254 & 14271							
Sydney Laboratory - NATA Site # 18217					X	X	X
Brisbane Laboratory - NATA Site # 20794							
External Laboratory							
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**			
FC073 1.0-1.2	Jan 08, 2014		TCLP	S14-Ja09836	X	X	X
FC074 0.2-0.3	Jan 08, 2014		TCLP	S14-Ja09837	X	X	X

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.01			0.01	Pass	
Cadmium	mg/L	< 0.005			0.005	Pass	
Chromium	mg/L	< 0.05			0.05	Pass	
Copper	mg/L	< 0.05			0.05	Pass	
Lead	mg/L	< 0.01			0.01	Pass	
Mercury	mg/L	< 0.001			0.001	Pass	
Nickel	mg/L	< 0.05			0.05	Pass	
Zinc	mg/L	< 0.05			0.05	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S14-Ja09858	NCP	%	103			70-130	Pass	
Cadmium	S14-Ja09858	NCP	%	104			70-130	Pass	
Chromium	S14-Ja09858	NCP	%	100			70-130	Pass	
Copper	S14-Ja09858	NCP	%	96			70-130	Pass	
Lead	S14-Ja09858	NCP	%	95			70-130	Pass	
Mercury	S14-Ja09858	NCP	%	104			70-130	Pass	
Nickel	S14-Ja09858	NCP	%	97			70-130	Pass	
Zinc	S14-Ja09858	NCP	%	113			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S14-Ja09857	NCP	mg/L	< 0.01	0.010	3.0	30%	Pass	
Cadmium	S14-Ja09857	NCP	mg/L	0.0085	0.0092	7.0	30%	Pass	
Chromium	S14-Ja09857	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Copper	S14-Ja09857	NCP	mg/L	0.071	0.075	5.0	30%	Pass	
Lead	S14-Ja09857	NCP	mg/L	0.33	0.34	4.0	30%	Pass	
Mercury	S14-Ja09857	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Nickel	S14-Ja09857	NCP	mg/L	0.058	0.063	8.0	30%	Pass	
Zinc	S14-Ja09857	NCP	mg/L	6.7	7.1	6.0	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
C01	Leachate Fluid Key: 1 - pH 5.0, 2 - pH 2.9, 3 - pH 9.2, 4 - Reagent (DI) water, 5 - Client sample, 6 - other

Authorised By

Jean Heng	Client Services
James Norford	Senior Analyst-Metal (NSW)

Dr. Bob Symons
Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

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From: Nathan Cussen [mailto:NCussen@jbsg.com.au]
Sent: Wednesday, 22 January 2014 9:58 AM
To: Jean Heng
Subject: Lab Batch 405428 Green Square 43182 Block 8B

Hi Jean,

Could I please schedule the following TCLP's

- FC073 1.0-1.2 Metals; AND
- FC074 0.2-0.3 Metals.

That's it for now.

Cheers
Nathan

EWL # 406273

Nathan Cussen | Senior Environmental Consultant| JBS&G
Sydney | Melbourne | Adelaide | Perth | Brisbane
Level 1, 50 Margaret Street, Sydney NSW 2000
T: 02 8245 0300 | M: 0431 401 022| www.jbsg.com.au
Contaminated Land | Groundwater Remediation | Auditing and Compliance | Assessments and Approvals | Occupational Hygiene and Monitoring

If you would like to send through large electronic files (>25MB), please use JBS&G's secure internet-based file delivery system located at http://dropbox.yousendit.com/JBSG. Place `Nathan Cussen - Sydney in the subject.
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eurofins | mgt

ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

Melbourne
3-5 Kingston Town Close
Oakleigh Vic 3166
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F6, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Sample Receipt Advice

Company name: **JBS & G (NSW & WA) Pty Ltd**

Contact name: Nathan Cussen
Client job number: GREEN SQUARE BLOCK 8B 43182
COC number: Not provided
Turn around time: 5 Day
Date/Time received: Jan 13, 2014 5:00 PM
Eurofins | mgt reference: **405428**

Sample information

☑ A detailed list of analytes logged into our LIMS, is included in the attached summary table.

☑ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt Sample Receipt : 7 degrees Celsius.

☑ All samples have been received as described on the above COC.

☑ COC has been completed correctly.

☑ Attempt to chill was evident.

☑ Appropriately preserved sample containers have been used.

☑ All samples were received in good condition.

☑ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.

☑ Organic samples had Teflon liners.

☒ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Contact notes

If you have any questions with respect to these samples please contact:

Jean Heng on Phone : (+61) (2) 9900 8400 or by e.mail: JeanHeng@eurofins.com.au

Results will be delivered electronically via e.mail to Nathan Cussen - ncussen@jbsg.com.au.

Eurofins | mgt Sample Receipt

eurofins | mgt

ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

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NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: GREEN SQUARE BLOCK 8B 43182

Order No.:
Report #: 405428
Phone: 02 8245 0300
Fax:

Received: Jan 13, 2014 5:00 PM
Due: Jan 21, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	Total Recoverable Hydrocarbons	Foreign Materials - ENM	Volatile Organics	JBS&G Suite 2
Laboratory where analysis is conducted														
Melbourne Laboratory - NATA Site # 1254 & 14271														
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
External Laboratory														
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**										
FC073 0.2-0.3	Jan 08, 2014		Soil	S14-Ja03545	X	X		X						X
FC073 0.5-0.7	Jan 08, 2014		Soil	S14-Ja03546			X							
FC073 1.0-1.2	Jan 08, 2014		Soil	S14-Ja03547	X	X		X				X		X
FC073 1.5-1.7	Jan 08, 2014		Soil	S14-Ja03548	X									X
FC074 0.2-0.3	Jan 08, 2014		Soil	S14-Ja03549	X	X		X					X	X
FC074 0.8-1.0	Jan 08, 2014		Soil	S14-Ja03550	X									X
FC074 3.0-3.2	Jan 08, 2014		Soil	S14-Ja03551	X	X		X	X	X	X			
QC04	Jan 08, 2014		Soil	S14-Ja03552	X								X	X

eurofins | mgt

Certificate of Analysis

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Nathan Cussen**

Report **405428-S**
Client Reference GREEN SQUARE BLOCK 8B 43182
Received Date Jan 13, 2014

Client Sample ID **Sample Matrix** **Eurofins | mgt Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**FC073 0.2-0.3** **Soil** **S14-Ja03545** **Jan 08, 2014**	**FC073 1.0-1.2** **Soil** **S14-Ja03547** **Jan 08, 2014**	**FC073 1.5-1.7** **Soil** **S14-Ja03548** **Jan 08, 2014**	**FC074 0.2-0.3** **Soil** **S14-Ja03549** **Jan 08, 2014**
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	129	88	126	126
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
Volatile Organics						
1.1-Dichloroethane	0.05	mg/kg	-	-	-	< 0.05
1.1-Dichloroethene	0.05	mg/kg	-	-	-	< 0.05
1.1.1-Trichloroethane	0.05	mg/kg	-	-	-	< 0.05
1.1.1.2-Tetrachloroethane	0.05	mg/kg	-	-	-	< 0.05
1.1.2-Trichloroethane	0.05	mg/kg	-	-	-	< 0.05
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dibromoethane	0.05	mg/kg	-	-	-	< 0.05
1.2-Dichlorobenzene	0.05	mg/kg	-	-	-	< 0.05
1.2-Dichloroethane	0.05	mg/kg	-	-	-	< 0.05
1.2-Dichloropropane	0.05	mg/kg	-	-	-	< 0.05
1.2.3-Trichloropropane	0.05	mg/kg	-	-	-	< 0.05
1.2.4-Trimethylbenzene	0.05	mg/kg	-	-	-	< 0.05
1.3-Dichlorobenzene	0.05	mg/kg	-	-	-	< 0.05
1.3-Dichloropropane	0.05	mg/kg	-	-	-	< 0.05

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC073 0.2-0.3 Soil S14-Ja03545 Jan 08, 2014	FC073 1.0-1.2 Soil S14-Ja03547 Jan 08, 2014	FC073 1.5-1.7 Soil S14-Ja03548 Jan 08, 2014	FC074 0.2-0.3 Soil S14-Ja03549 Jan 08, 2014
Volatile Organics						
1.3.5-Trimethylbenzene	0.05	mg/kg	-	-	-	< 0.05
1.4-Dichlorobenzene	0.05	mg/kg	-	-	-	< 0.05
2-Butanone (MEK)	0.05	mg/kg	-	-	-	< 0.05
4-Chlorotoluene	0.05	mg/kg	-	-	-	< 0.05
4-Methyl-2-pentanone (MIBK)	0.05	mg/kg	-	-	-	< 0.05
Benzene	0.1	mg/kg	-	-	-	< 0.1
Bromobenzene	0.05	mg/kg	-	-	-	< 0.05
Bromochloromethane	0.05	mg/kg	-	-	-	< 0.05
Bromodichloromethane	0.05	mg/kg	-	-	-	< 0.05
Bromoform	0.05	mg/kg	-	-	-	< 0.05
Bromomethane	0.05	mg/kg	-	-	-	< 0.05
Carbon disulfide	0.05	mg/kg	-	-	-	< 0.05
Carbon Tetrachloride	0.05	mg/kg	-	-	-	< 0.05
Chlorobenzene	0.05	mg/kg	-	-	-	< 0.05
Chloroethane	0.05	mg/kg	-	-	-	< 0.05
Chloroform	0.05	mg/kg	-	-	-	< 0.05
Chloromethane	0.05	mg/kg	-	-	-	< 0.05
cis-1.2-Dichloroethene	0.05	mg/kg	-	-	-	< 0.05
cis-1.3-Dichloropropene	0.05	mg/kg	-	-	-	< 0.05
Dibromochloromethane	0.05	mg/kg	-	-	-	< 0.05
Dibromomethane	0.5	mg/kg	-	-	-	< 0.5
Dichlorodifluoromethane	0.05	mg/kg	-	-	-	< 0.05
Ethylbenzene	0.1	mg/kg	-	-	-	< 0.1
Iodomethane	0.05	mg/kg	-	-	-	< 0.05
Isopropyl benzene (Cumene)	0.05	mg/kg	-	-	-	< 0.05
m&p-Xylenes	0.2	mg/kg	-	-	-	< 0.2
Methylene Chloride	0.05	mg/kg	-	-	-	< 0.05
o-Xylene	0.1	mg/kg	-	-	-	< 0.1
Styrene	0.05	mg/kg	-	-	-	< 0.05
Tetrachloroethene	0.05	mg/kg	-	-	-	< 0.05
Toluene	0.1	mg/kg	-	-	-	< 0.1
trans-1.2-Dichloroethene	0.05	mg/kg	-	-	-	< 0.05
trans-1.3-Dichloropropene	0.05	mg/kg	-	-	-	< 0.05
Trichloroethene	0.05	mg/kg	-	-	-	< 0.05
Trichlorofluoromethane	0.05	mg/kg	-	-	-	< 0.05
Vinyl chloride	0.05	mg/kg	-	-	-	< 0.05
Xylenes - Total	0.3	mg/kg	-	-	-	< 0.3
Fluorobenzene (surr.)	1	%	-	-	-	95
4-Bromofluorobenzene (surr.)	1	%	-	-	-	126
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC073 0.2-0.3 Soil S14-Ja03545 Jan 08, 2014	FC073 1.0-1.2 Soil S14-Ja03547 Jan 08, 2014	FC073 1.5-1.7 Soil S14-Ja03548 Jan 08, 2014	FC074 0.2-0.3 Soil S14-Ja03549 Jan 08, 2014
Polycyclic Aromatic Hydrocarbons						
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	1.2	1.2	1.2	1.2
2-Fluorobiphenyl (surr.)	1	%	83	90	84	88
p-Terphenyl-d14 (surr.)	1	%	99	107	100	104
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Toxaphene	1	mg/kg	< 1	< 1	< 1	< 1
Dibutylchlorendate (surr.)	1	%	87	113	108	115
Tetrachloro-m-xylene (surr.)	1	%	74	77	84	85
Polychlorinated Biphenyls (PCB)						
Aroclor-1016	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aroclor-1232	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aroclor-1242	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aroclor-1248	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aroclor-1254	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aroclor-1260	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PCB	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibutylchlorendate (surr.)	1	%	87	113	108	115

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC073 0.2-0.3 Soil S14-Ja03545 Jan 08, 2014	FC073 1.0-1.2 Soil S14-Ja03547 Jan 08, 2014	FC073 1.5-1.7 Soil S14-Ja03548 Jan 08, 2014	FC074 0.2-0.3 Soil S14-Ja03549 Jan 08, 2014
Conductivity (1:5 aqueous extract at 25°C)	5	uS/cm	120	120	-	140
pH (1:5 Aqueous extract)	0.1	units	8.5	8.4	-	8.5
% Moisture	0.1	%	17	9.8	19	15
Initial Weight	0.01	kg	-	5.5	-	-
Heavy Metals						
Arsenic	2	mg/kg	5.5	6.4	8.9	8.5
Cadmium	0.4	mg/kg	0.6	1.1	< 0.4	1.2
Chromium	5	mg/kg	9.4	6.0	8.1	11
Copper	5	mg/kg	75	74	34	200
Lead	5	mg/kg	70	160	13	110
Mercury	0.05	mg/kg	0.24	0.28	0.07	0.15
Nickel	5	mg/kg	8.1	6.2	< 5	17
Zinc	5	mg/kg	140	420	6.4	490
Foreign Material - Type I						
Metal*	0.1	%	-	< 0.1	-	-
Glass*	0.1	%	-	< 0.1	-	-
Asphalt*	0.1	%	-	0.4	-	-
Stone*	0.1	%	-	1.8	-	-
Ceramic and slag (other than blast furnace slag)*	0.1	%	-	< 0.1	-	-
Foreign Material - Type II						
Plaster*	0.1	%	-	< 0.1	-	-
Clay lumps and other friable material*	0.1	%	-	2.2	-	-
Foreign Material - Type III						
Rubber*	0.05	%	-	< 0.05	-	-
Plastic*	0.05	%	-	< 0.05	-	-
Bitumen*	0.05	%	-	0.10	-	-
Paper*	0.05	%	-	< 0.05	-	-
Cloth*	0.05	%	-	< 0.05	-	-
Paint*	0.05	%	-	< 0.05	-	-
Wood and other vegetable matter*	0.05	%	-	< 0.05	-	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC074 0.8-1.0 Soil S14-Ja03550 Jan 08, 2014	FC074 3.0-3.2 Soil S14-Ja03551 Jan 08, 2014	QC04 Soil S14-Ja03552 Jan 08, 2014
Total Recoverable Hydrocarbons - 1999 NEPM Fractions					
TRH C6-C9	20	mg/kg	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50
TRH C10-36 (Total)	50	mg/kg	< 50	< 50	< 50
BTEX					
Benzene	0.1	mg/kg	< 0.1	-	< 0.1
Toluene	0.1	mg/kg	< 0.1	-	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC074 0.8-1.0 Soil S14-Ja03550 Jan 08, 2014	FC074 3.0-3.2 Soil S14-Ja03551 Jan 08, 2014	QC04 Soil S14-Ja03552 Jan 08, 2014
BTEX					
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1
Xylenes - Total	0.3	mg/kg	< 0.3	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	126	-	87
Total Recoverable Hydrocarbons - 2013 NEPM Fractions					
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100
Volatile Organics					
1.1-Dichloroethane	0.05	mg/kg	-	-	< 0.05
1.1-Dichloroethene	0.05	mg/kg	-	-	< 0.05
1.1.1-Trichloroethane	0.05	mg/kg	-	-	< 0.05
1.1.1.2-Tetrachloroethane	0.05	mg/kg	-	-	< 0.05
1.1.2-Trichloroethane	0.05	mg/kg	-	-	< 0.05
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5
1.2-Dibromoethane	0.05	mg/kg	-	-	< 0.05
1.2-Dichlorobenzene	0.05	mg/kg	-	-	< 0.05
1.2-Dichloroethane	0.05	mg/kg	-	-	< 0.05
1.2-Dichloropropane	0.05	mg/kg	-	-	< 0.05
1.2.3-Trichloropropane	0.05	mg/kg	-	-	< 0.05
1.2.4-Trimethylbenzene	0.05	mg/kg	-	-	< 0.05
1.3-Dichlorobenzene	0.05	mg/kg	-	-	< 0.05
1.3-Dichloropropane	0.05	mg/kg	-	-	< 0.05
1.3.5-Trimethylbenzene	0.05	mg/kg	-	-	< 0.05
1.4-Dichlorobenzene	0.05	mg/kg	-	-	< 0.05
2-Butanone (MEK)	0.05	mg/kg	-	-	< 0.05
4-Chlorotoluene	0.05	mg/kg	-	-	< 0.05
4-Methyl-2-pentanone (MIBK)	0.05	mg/kg	-	-	< 0.05
Benzene	0.1	mg/kg	-	-	< 0.1
Bromobenzene	0.05	mg/kg	-	-	< 0.05
Bromochloromethane	0.05	mg/kg	-	-	< 0.05
Bromodichloromethane	0.05	mg/kg	-	-	< 0.05
Bromoform	0.05	mg/kg	-	-	< 0.05
Bromomethane	0.05	mg/kg	-	-	< 0.05
Carbon disulfide	0.05	mg/kg	-	-	< 0.05
Carbon Tetrachloride	0.05	mg/kg	-	-	< 0.05
Chlorobenzene	0.05	mg/kg	-	-	< 0.05
Chloroethane	0.05	mg/kg	-	-	< 0.05
Chloroform	0.05	mg/kg	-	-	< 0.05
Chloromethane	0.05	mg/kg	-	-	< 0.05
cis-1.2-Dichloroethene	0.05	mg/kg	-	-	< 0.05
cis-1.3-Dichloropropene	0.05	mg/kg	-	-	< 0.05
Dibromochloromethane	0.05	mg/kg	-	-	< 0.05
Dibromomethane	0.5	mg/kg	-	-	< 0.5
Dichlorodifluoromethane	0.05	mg/kg	-	-	< 0.05
Ethylbenzene	0.1	mg/kg	-	-	< 0.1

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC074 0.8-1.0 Soil S14-Ja03550 Jan 08, 2014	FC074 3.0-3.2 Soil S14-Ja03551 Jan 08, 2014	QC04 Soil S14-Ja03552 Jan 08, 2014
Volatile Organics					
Iodomethane	0.05	mg/kg	-	-	< 0.05
Isopropyl benzene (Cumene)	0.05	mg/kg	-	-	< 0.05
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2
Methylene Chloride	0.05	mg/kg	-	-	< 0.05
o-Xylene	0.1	mg/kg	-	-	< 0.1
Styrene	0.05	mg/kg	-	-	< 0.05
Tetrachloroethene	0.05	mg/kg	-	-	< 0.05
Toluene	0.1	mg/kg	-	-	< 0.1
trans-1.2-Dichloroethene	0.05	mg/kg	-	-	< 0.05
trans-1.3-Dichloropropene	0.05	mg/kg	-	-	< 0.05
Trichloroethene	0.05	mg/kg	-	-	< 0.05
Trichlorofluoromethane	0.05	mg/kg	-	-	< 0.05
Vinyl chloride	0.05	mg/kg	-	-	< 0.05
Xylenes - Total	0.3	mg/kg	-	-	< 0.3
Fluorobenzene (surr.)	1	%	-	-	93
4-Bromofluorobenzene (surr.)	1	%	-	-	87
Polycyclic Aromatic Hydrocarbons					
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Total PAH	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	1.2	1.2	1.2
2-Fluorobiphenyl (surr.)	1	%	83	91	86
p-Terphenyl-d14 (surr.)	1	%	98	107	104
Organochlorine Pesticides					
Chlordanes - Total	0.1	mg/kg	< 0.1	-	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	-	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	-	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	-	< 0.05
a-BHC	0.05	mg/kg	< 0.05	-	< 0.05
Aldrin	0.05	mg/kg	< 0.05	-	< 0.05
b-BHC	0.05	mg/kg	< 0.05	-	< 0.05
d-BHC	0.05	mg/kg	< 0.05	-	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	-	< 0.05

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC074 0.8-1.0 Soil S14-Ja03550 Jan 08, 2014	FC074 3.0-3.2 Soil S14-Ja03551 Jan 08, 2014	QC04 Soil S14-Ja03552 Jan 08, 2014
Organochlorine Pesticides					
Endosulfan I	0.05	mg/kg	< 0.05	-	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	< 0.05
Endrin	0.05	mg/kg	< 0.05	-	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	-	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	< 0.05
Methoxychlor	0.2	mg/kg	< 0.2	-	< 0.2
Toxaphene	1	mg/kg	< 1	-	< 1
Dibutylchlorendate (surr.)	1	%	112	-	112
Tetrachloro-m-xylene (surr.)	1	%	88	-	77
Polychlorinated Biphenyls (PCB)					
Aroclor-1016	0.5	mg/kg	< 0.5	-	< 0.5
Aroclor-1232	0.5	mg/kg	< 0.5	-	< 0.5
Aroclor-1242	0.5	mg/kg	< 0.5	-	< 0.5
Aroclor-1248	0.5	mg/kg	< 0.5	-	< 0.5
Aroclor-1254	0.5	mg/kg	< 0.5	-	< 0.5
Aroclor-1260	0.5	mg/kg	< 0.5	-	< 0.5
Total PCB	0.5	mg/kg	< 0.5	-	< 0.5
Dibutylchlorendate (surr.)	1	%	112	-	112
Conductivity (1:5 aqueous extract at 25°C)	5	uS/cm	-	59	-
pH (1:5 Aqueous extract)	0.1	units	-	8.2	-
% Moisture	0.1	%	12	23	17
Heavy Metals					
Arsenic	2	mg/kg	15	56	12
Cadmium	0.4	mg/kg	< 0.4	< 0.4	2.0
Chromium	5	mg/kg	< 5	5.1	13
Copper	5	mg/kg	< 5	19	190
Lead	5	mg/kg	< 5	< 5	110
Mercury	0.05	mg/kg	< 0.05	< 0.05	0.15
Nickel	5	mg/kg	< 5	< 5	20
Zinc	5	mg/kg	< 5	15	630

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Jan 16, 2014	14 Day
- Method: E004 Petroleum Hydrocarbons (TPH)			
BTEX	Sydney	Jan 16, 2014	14 Day
- Method: E029/E016 BTEX			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jan 16, 2014	14 Day
- Method: LM-LTM-ORG2010			
Polycyclic Aromatic Hydrocarbons	Sydney	Jan 15, 2014	14 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Organochlorine Pesticides	Sydney	Jan 15, 2014	14 Day
- Method: E013 Organochlorine Pesticides (OC)			
Polychlorinated Biphenyls (PCB)	Sydney	Jan 15, 2014	28 Day
- Method: E013 Polychlorinated Biphenyls (PCB)			
Metals M8	Sydney	Jan 15, 2014	28 Day
- Method: E022 Acid Extractable metals in Soils & E026 Mercury			
Volatile Organics	Sydney	Jan 15, 2014	7 Day
- Method: E016 Volatile Organic Compounds (VOC)			
Conductivity (1:5 aqueous extract at 25°C)	Sydney	Jan 16, 2014	7 Day
- Method: E032.2 Electrical Conductivity (EC)			
pH (1:5 Aqueous extract)	Sydney	Jan 16, 2014	7 Day
- Method: E018.2 pH			
% Moisture	Sydney	Jan 15, 2014	28 Day
- Method: E005 Moisture Content			
Foreign Material - Type I	Sydney	Jan 14, 2014	180 Day
- Method: RTA Method T276			
Foreign Material - Type II	Sydney	Jan 14, 2014	180 Day
- Method: RTA Method T276			
Foreign Material - Type III	Sydney	Jan 14, 2014	180 Day
- Method: RTA Method T276			

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Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: GREEN SQUARE BLOCK 8B 43182

Order No.:
Report #: 405428
Phone: 02 8245 0300
Fax:

Received: Jan 13, 2014 5:00 PM
Due: Jan 21, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	Total Recoverable Hydrocarbons	Foreign Materials - ENM	Volatile Organics	JBS&G Suite 2
Laboratory where analysis is conducted														
Melbourne Laboratory - NATA Site # 1254 & 14271														
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
External Laboratory														
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**										
FC073 0.2-0.3	Jan 08, 2014		Soil	S14-Ja03545	X	X		X						X
FC073 0.5-0.7	Jan 08, 2014		Soil	S14-Ja03546			X							
FC073 1.0-1.2	Jan 08, 2014		Soil	S14-Ja03547	X	X		X				X		X
FC073 1.5-1.7	Jan 08, 2014		Soil	S14-Ja03548	X									X
FC074 0.2-0.3	Jan 08, 2014		Soil	S14-Ja03549	X	X		X					X	X
FC074 0.8-1.0	Jan 08, 2014		Soil	S14-Ja03550	X									X
FC074 3.0-3.2	Jan 08, 2014		Soil	S14-Ja03551	X	X		X	X	X	X			
QC04	Jan 08, 2014		Soil	S14-Ja03552	X								X	X

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH C6-C10 less BTEX (F1)	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/kg	< 0.05			0.05	Pass	
1.1-Dichloroethene	mg/kg	< 0.05			0.05	Pass	
1.1.1-Trichloroethane	mg/kg	< 0.05			0.05	Pass	
1.1.1.2-Tetrachloroethane	mg/kg	< 0.05			0.05	Pass	
1.1.2-Trichloroethane	mg/kg	< 0.05			0.05	Pass	
1.1.2.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dibromoethane	mg/kg	< 0.05			0.05	Pass	
1.2-Dichlorobenzene	mg/kg	< 0.05			0.05	Pass	
1.2-Dichloroethane	mg/kg	< 0.05			0.05	Pass	
1.2-Dichloropropane	mg/kg	< 0.05			0.05	Pass	
1.2.3-Trichloropropane	mg/kg	< 0.05			0.05	Pass	
1.2.4-Trimethylbenzene	mg/kg	< 0.05			0.05	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.05			0.05	Pass	
1.3-Dichloropropane	mg/kg	< 0.05			0.05	Pass	
1.3.5-Trimethylbenzene	mg/kg	< 0.05			0.05	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.05			0.05	Pass	
2-Butanone (MEK)	mg/kg	< 0.05			0.05	Pass	
4-Chlorotoluene	mg/kg	< 0.05			0.05	Pass	
4-Methyl-2-pentanone (MIBK)	mg/kg	< 0.05			0.05	Pass	
Bromobenzene	mg/kg	< 0.05			0.05	Pass	
Bromochloromethane	mg/kg	< 0.05			0.05	Pass	
Bromodichloromethane	mg/kg	< 0.05			0.05	Pass	
Bromoform	mg/kg	< 0.05			0.05	Pass	
Bromomethane	mg/kg	< 0.05			0.05	Pass	
Carbon disulfide	mg/kg	< 0.05			0.05	Pass	
Carbon Tetrachloride	mg/kg	< 0.05			0.05	Pass	
Chlorobenzene	mg/kg	< 0.05			0.05	Pass	
Chloroethane	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Chloroform	mg/kg	< 0.05			0.05	Pass	
Chloromethane	mg/kg	< 0.05			0.05	Pass	
cis-1.2-Dichloroethene	mg/kg	< 0.05			0.05	Pass	
cis-1.3-Dichloropropene	mg/kg	< 0.05			0.05	Pass	
Dibromochloromethane	mg/kg	< 0.05			0.05	Pass	
Dibromomethane	mg/kg	< 0.5			0.5	Pass	
Dichlorodifluoromethane	mg/kg	< 0.05			0.05	Pass	
Iodomethane	mg/kg	< 0.05			0.05	Pass	
Isopropyl benzene (Cumene)	mg/kg	< 0.05			0.05	Pass	
Methylene Chloride	mg/kg	< 0.05			0.05	Pass	
Styrene	mg/kg	< 0.05			0.05	Pass	
Tetrachloroethene	mg/kg	< 0.05			0.05	Pass	
trans-1.2-Dichloroethene	mg/kg	< 0.05			0.05	Pass	
trans-1.3-Dichloropropene	mg/kg	< 0.05			0.05	Pass	
Trichloroethene	mg/kg	< 0.05			0.05	Pass	
Trichlorofluoromethane	mg/kg	< 0.05			0.05	Pass	
Vinyl chloride	mg/kg	< 0.05			0.05	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-BHC	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-BHC	mg/kg	< 0.05			0.05	Pass	
d-BHC	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-BHC (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.2			0.2	Pass	
Toxaphene	mg/kg	< 1			1	Pass	
Method Blank							
Polychlorinated Biphenyls (PCB)							
Aroclor-1016	mg/kg	< 0.5			0.5	Pass	
Aroclor-1232	mg/kg	< 0.5			0.5	Pass	
Aroclor-1242	mg/kg	< 0.5			0.5	Pass	
Aroclor-1248	mg/kg	< 0.5			0.5	Pass	
Aroclor-1254	mg/kg	< 0.5			0.5	Pass	
Aroclor-1260	mg/kg	< 0.5			0.5	Pass	
Total PCB	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.05			0.05	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	87			70-130	Pass	
TRH C10-C14	%	78			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	99			70-130	Pass	
Toluene	%	94			70-130	Pass	
Ethylbenzene	%	94			70-130	Pass	
m&p-Xylenes	%	94			70-130	Pass	
o-Xylene	%	105			70-130	Pass	
Xylenes - Total	%	98			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	108			70-130	Pass	
TRH C6-C10	%	98			70-130	Pass	
TRH >C10-C16	%	83			70-130	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethane	%	96			75-125	Pass	
1.1-Dichloroethene	%	99			70-130	Pass	
1.1.1-Trichloroethane	%	96			70-130	Pass	
1.1.1.2-Tetrachloroethane	%	99			70-130	Pass	
1.1.2-Trichloroethane	%	108			70-130	Pass	
1.1.2.2-Tetrachloroethane	%	120			70-130	Pass	
1.2-Dibromoethane	%	111			70-130	Pass	
1.2-Dichlorobenzene	%	105			70-130	Pass	
1.2-Dichloroethane	%	104			70-130	Pass	
1.2-Dichloropropane	%	101			70-130	Pass	
1.2.3-Trichloropropane	%	119			70-130	Pass	
1.2.4-Trimethylbenzene	%	104			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
1.3-Dichlorobenzene	%	106			70-130	Pass	
1.3-Dichloropropane	%	110			70-130	Pass	
1.3.5-Trimethylbenzene	%	106			70-130	Pass	
1.4-Dichlorobenzene	%	107			70-130	Pass	
2-Butanone (MEK)	%	112			70-130	Pass	
4-Chlorotoluene	%	107			70-130	Pass	
4-Methyl-2-pentanone (MIBK)	%	115			70-130	Pass	
Bromobenzene	%	111			70-130	Pass	
Bromochloromethane	%	99			70-130	Pass	
Bromodichloromethane	%	99			70-130	Pass	
Bromoform	%	104			70-130	Pass	
Bromomethane	%	98			70-130	Pass	
Carbon disulfide	%	116			70-130	Pass	
Carbon Tetrachloride	%	95			70-130	Pass	
Chlorobenzene	%	102			70-130	Pass	
Chloroethane	%	97			70-130	Pass	
Chloroform	%	98			70-130	Pass	
Chloromethane	%	89			70-130	Pass	
cis-1.2-Dichloroethene	%	99			70-130	Pass	
cis-1.3-Dichloropropene	%	100			70-130	Pass	
Dibromochloromethane	%	104			70-130	Pass	
Dibromomethane	%	86			70-130	Pass	
Iodomethane	%	92			75-125	Pass	
Isopropyl benzene (Cumene)	%	102			70-130	Pass	
Methylene Chloride	%	101			70-130	Pass	
Styrene	%	105			70-130	Pass	
Tetrachloroethene	%	105			70-130	Pass	
trans-1.2-Dichloroethene	%	98			70-130	Pass	
trans-1.3-Dichloropropene	%	100			70-130	Pass	
Trichloroethene	%	100			70-130	Pass	
Trichlorofluoromethane	%	91			70-130	Pass	
Vinyl chloride	%	87			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	122			70-130	Pass	
Acenaphthylene	%	122			70-130	Pass	
Anthracene	%	128			70-130	Pass	
Benz(a)anthracene	%	127			70-130	Pass	
Benzo(a)pyrene	%	120			70-130	Pass	
Benzo(b&j)fluoranthene	%	112			70-130	Pass	
Benzo(g.h.i)perylene	%	116			70-130	Pass	
Benzo(k)fluoranthene	%	123			70-130	Pass	
Chrysene	%	121			70-130	Pass	
Dibenz(a.h)anthracene	%	119			70-130	Pass	
Fluoranthene	%	126			70-130	Pass	
Fluorene	%	123			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	117			70-130	Pass	
Naphthalene	%	122			70-130	Pass	
Phenanthrene	%	124			70-130	Pass	
Pyrene	%	122			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	96			70-130	Pass	
4.4'-DDD	%	102			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
4.4'-DDE	%	100			70-130	Pass	
4.4'-DDT	%	87			70-130	Pass	
a-BHC	%	100			70-130	Pass	
Aldrin	%	102			70-130	Pass	
b-BHC	%	108			70-130	Pass	
d-BHC	%	104			70-130	Pass	
Dieldrin	%	97			70-130	Pass	
Endosulfan I	%	98			70-130	Pass	
Endosulfan II	%	96			70-130	Pass	
Endosulfan sulphate	%	98			70-130	Pass	
Endrin	%	90			70-130	Pass	
Endrin aldehyde	%	93			70-130	Pass	
Endrin ketone	%	88			70-130	Pass	
g-BHC (Lindane)	%	98			70-130	Pass	
Heptachlor	%	86			70-130	Pass	
Heptachlor epoxide	%	95			70-130	Pass	
Hexachlorobenzene	%	86			70-130	Pass	
Methoxychlor	%	84			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls (PCB)							
Aroclor-1260	%	93			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	93			70-130	Pass	
Cadmium	%	99			70-130	Pass	
Chromium	%	102			70-130	Pass	
Copper	%	110			70-130	Pass	
Lead	%	97			70-130	Pass	
Mercury	%	114			70-130	Pass	
Nickel	%	107			70-130	Pass	
Zinc	%	100			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S14-Ja03494	NCP	%	100			70-130	Pass	
4.4'-DDD	S14-Ja03494	NCP	%	122			70-130	Pass	
4.4'-DDE	S14-Ja03494	NCP	%	105			70-130	Pass	
4.4'-DDT	S14-Ja03494	NCP	%	70			70-130	Pass	
a-BHC	S14-Ja03494	NCP	%	110			70-130	Pass	
Aldrin	S14-Ja03494	NCP	%	104			70-130	Pass	
b-BHC	S14-Ja03494	NCP	%	115			70-130	Pass	
d-BHC	S14-Ja03494	NCP	%	118			70-130	Pass	
Dieldrin	S14-Ja03494	NCP	%	96			70-130	Pass	
Endosulfan I	S14-Ja03494	NCP	%	107			70-130	Pass	
Endosulfan II	S14-Ja03494	NCP	%	95			70-130	Pass	
Endosulfan sulphate	S14-Ja03494	NCP	%	91			70-130	Pass	
Endrin	S14-Ja03494	NCP	%	99			70-130	Pass	
Endrin aldehyde	S14-Ja03494	NCP	%	83			70-130	Pass	
Endrin ketone	S14-Ja03494	NCP	%	85			70-130	Pass	
g-BHC (Lindane)	S14-Ja03494	NCP	%	111			70-130	Pass	
Heptachlor	S14-Ja03494	NCP	%	96			70-130	Pass	
Heptachlor epoxide	S14-Ja03494	NCP	%	101			70-130	Pass	
Hexachlorobenzene	S14-Ja03494	NCP	%	107			70-130	Pass	
Methoxychlor	S14-Ja03494	NCP	%	84			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Volatile Organics				Result 1					
1.1-Dichloroethane	S14-Ja03494	NCP	%	90			75-125	Pass	
1.1-Dichloroethene	S14-Ja03494	NCP	%	95			70-130	Pass	
1.1.1-Trichloroethane	S14-Ja03494	NCP	%	89			70-130	Pass	
1.1.1.2-Tetrachloroethane	S14-Ja03494	NCP	%	97			70-130	Pass	
1.1.2-Trichloroethane	S14-Ja03494	NCP	%	102			70-130	Pass	
1.1.2.2-Tetrachloroethane	S14-Ja03494	NCP	%	118			70-130	Pass	
1.2-Dibromoethane	S14-Ja03494	NCP	%	105			70-130	Pass	
1.2-Dichlorobenzene	S14-Ja03494	NCP	%	97			70-130	Pass	
1.2-Dichloroethane	S14-Ja03494	NCP	%	95			70-130	Pass	
1.2-Dichloropropane	S14-Ja03494	NCP	%	96			70-130	Pass	
1.2.3-Trichloropropane	S14-Ja03494	NCP	%	110			70-130	Pass	
1.2.4-Trimethylbenzene	S14-Ja03494	NCP	%	98			70-130	Pass	
1.3-Dichlorobenzene	S14-Ja03494	NCP	%	98			70-130	Pass	
1.3-Dichloropropane	S14-Ja03494	NCP	%	104			70-130	Pass	
1.3.5-Trimethylbenzene	S14-Ja03494	NCP	%	99			70-130	Pass	
1.4-Dichlorobenzene	S14-Ja03494	NCP	%	99			70-130	Pass	
2-Butanone (MEK)	S14-Ja03494	NCP	%	103			70-130	Pass	
4-Chlorotoluene	S14-Ja03494	NCP	%	99			70-130	Pass	
4-Methyl-2-pentanone (MIBK)	S14-Ja03494	NCP	%	103			70-130	Pass	
Bromobenzene	S14-Ja03494	NCP	%	102			70-130	Pass	
Bromochloromethane	S14-Ja03494	NCP	%	93			70-130	Pass	
Bromodichloromethane	S14-Ja03494	NCP	%	93			70-130	Pass	
Bromoform	S14-Ja03494	NCP	%	97			70-130	Pass	
Bromomethane	S14-Ja03494	NCP	%	95			70-130	Pass	
Carbon disulfide	S14-Ja03494	NCP	%	114			70-130	Pass	
Carbon Tetrachloride	S14-Ja03494	NCP	%	88			70-130	Pass	
Chlorobenzene	S14-Ja03494	NCP	%	102			70-130	Pass	
Chloroethane	S14-Ja03494	NCP	%	93			70-130	Pass	
Chloroform	S14-Ja03494	NCP	%	94			70-130	Pass	
Chloromethane	S14-Ja03494	NCP	%	78			70-130	Pass	
cis-1.2-Dichloroethene	S14-Ja03494	NCP	%	93			70-130	Pass	
cis-1.3-Dichloropropene	S14-Ja03494	NCP	%	92			70-130	Pass	
Dibromochloromethane	S14-Ja03494	NCP	%	96			70-130	Pass	
Dibromomethane	S14-Ja03494	NCP	%	90			70-130	Pass	
Iodomethane	S14-Ja03494	NCP	%	88			75-125	Pass	
Isopropyl benzene (Cumene)	S14-Ja03494	NCP	%	102			70-130	Pass	
Methylene Chloride	S14-Ja03494	NCP	%	96			70-130	Pass	
Styrene	S14-Ja03494	NCP	%	101			70-130	Pass	
Tetrachloroethene	S14-Ja03494	NCP	%	101			70-130	Pass	
trans-1.2-Dichloroethene	S14-Ja03494	NCP	%	98			70-130	Pass	
trans-1.3-Dichloropropene	S14-Ja03494	NCP	%	92			70-130	Pass	
Trichloroethene	S14-Ja03494	NCP	%	96			70-130	Pass	
Trichlorofluoromethane	S14-Ja03494	NCP	%	88			70-130	Pass	
Vinyl chloride	S14-Ja03494	NCP	%	85			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S14-Ja03551	CP	%	74			70-130	Pass	
TRH C10-C14	S14-Ja03551	CP	%	82			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S14-Ja03551	CP	%	91			70-130	Pass	
Toluene	S14-Ja03551	CP	%	85			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Ethylbenzene	S14-Ja03551	CP	%	83			70-130	Pass	
m&p-Xylenes	S14-Ja03551	CP	%	84			70-130	Pass	
o-Xylene	S14-Ja03551	CP	%	96			70-130	Pass	
Xylenes - Total	S14-Ja03551	CP	%	88			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S14-Ja03551	CP	%	102			70-130	Pass	
TRH C6-C10	S14-Ja03551	CP	%	82			70-130	Pass	
TRH >C10-C16	S14-Ja03551	CP	%	86			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S14-Ja03551	CP	%	115			70-130	Pass	
Acenaphthylene	S14-Ja03551	CP	%	113			70-130	Pass	
Anthracene	S14-Ja03551	CP	%	116			70-130	Pass	
Benz(a)anthracene	S14-Ja03551	CP	%	116			70-130	Pass	
Benzo(a)pyrene	S14-Ja03551	CP	%	117			70-130	Pass	
Benzo(b&j)fluoranthene	S14-Ja03551	CP	%	108			70-130	Pass	
Benzo(g.h.i)perylene	S14-Ja03551	CP	%	111			70-130	Pass	
Benzo(k)fluoranthene	S14-Ja03551	CP	%	121			70-130	Pass	
Chrysene	S14-Ja03551	CP	%	118			70-130	Pass	
Dibenz(a.h)anthracene	S14-Ja03551	CP	%	113			70-130	Pass	
Fluoranthene	S14-Ja03551	CP	%	115			70-130	Pass	
Fluorene	S14-Ja03551	CP	%	115			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja03551	CP	%	111			70-130	Pass	
Naphthalene	S14-Ja03551	CP	%	114			70-130	Pass	
Phenanthrene	S14-Ja03551	CP	%	112			70-130	Pass	
Pyrene	S14-Ja03551	CP	%	111			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S14-Ja03551	CP	%	102			70-130	Pass	
Cadmium	S14-Ja03551	CP	%	109			70-130	Pass	
Chromium	S14-Ja03551	CP	%	104			70-130	Pass	
Copper	S14-Ja03551	CP	%	111			70-130	Pass	
Lead	S14-Ja03551	CP	%	104			70-130	Pass	
Mercury	S14-Ja03551	CP	%	109			70-130	Pass	
Nickel	S14-Ja03551	CP	%	108			70-130	Pass	
Zinc	S14-Ja03551	CP	%	104			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S14-Ja03494	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-BHC	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Endrin ketone	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S14-Ja03494	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Toxaphene	S14-Ja03494	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls (PCB)				Result 1	Result 2	RPD			
Aroclor-1016	S14-Ja03494	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1232	S14-Ja03494	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1242	S14-Ja03494	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1248	S14-Ja03494	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1254	S14-Ja03494	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1260	S14-Ja03494	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Conductivity (1:5 aqueous extract at 25°C)	S14-Ja03494	NCP	uS/cm	190	200	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.1-Dichloroethene	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.1.1-Trichloroethane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.1.2-Trichloroethane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	S14-Ja03494	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromoethane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.2-Dichlorobenzene	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.2-Dichloroethane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.2-Dichloropropane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.2.3-Trichloropropane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.2.4-Trimethylbenzene	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.3-Dichlorobenzene	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.3-Dichloropropane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.3.5-Trimethylbenzene	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.4-Dichlorobenzene	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
2-Butanone (MEK)	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4-Chlorotoluene	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Bromobenzene	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Bromochloromethane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Bromodichloromethane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Bromoform	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Bromomethane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Carbon disulfide	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Carbon Tetrachloride	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Chlorobenzene	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Chloroethane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Chloroform	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Chloromethane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
cis-1.2-Dichloroethene	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
cis-1.3-Dichloropropene	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	

Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
Dibromochloromethane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dibromomethane	S14-Ja03494	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorodifluoromethane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Iodomethane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Isopropyl benzene (Cumene)	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methylene Chloride	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Styrene	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Tetrachloroethene	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
trans-1.2-Dichloroethene	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
trans-1.3-Dichloropropene	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Trichloroethene	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Trichlorofluoromethane	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Vinyl chloride	S14-Ja03494	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S14-Ja03551	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S14-Ja03551	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S14-Ja03551	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S14-Ja03551	CP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S14-Ja03551	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S14-Ja03551	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S14-Ja03551	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S14-Ja03551	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S14-Ja03551	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total	S14-Ja03551	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S14-Ja03551	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S14-Ja03551	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S14-Ja03551	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S14-Ja03551	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S14-Ja03551	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S14-Ja03551	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S14-Ja03551	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S14-Ja03551	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S14-Ja03551	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S14-Ja03551	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S14-Ja03551	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S14-Ja03551	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S14-Ja03551	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S14-Ja03551	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S14-Ja03551	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S14-Ja03551	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S14-Ja03551	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S14-Ja03551	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja03551	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S14-Ja03551	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S14-Ja03551	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S14-Ja03551	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S14-Ja03551	CP	mg/kg	56	44	25	30%	Pass	
Cadmium	S14-Ja03551	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S14-Ja03551	CP	mg/kg	5.1	< 5	10	30%	Pass	
Copper	S14-Ja03551	CP	mg/kg	19	18	3.0	30%	Pass	
Lead	S14-Ja03551	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Mercury	S14-Ja03551	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Nickel	S14-Ja03551	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Zinc	S14-Ja03551	CP	mg/kg	15	14	10	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs

Authorised By

Jean Heng	Client Services
Bob Symons	Senior Analyst-Inorganic (NSW)
James Norford	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)
Ryan Hamilton	Senior Analyst-Volatile (NSW)

Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

Eurofins | mgt shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins | mgt be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

eurofins | mgt
Unit F3-F6 Building F, Parkview Building
16 Mars Road, Lane Cove West
NSW 2066

Page 1 of 1

CHAIN OF CUSTODY

#405428

JBS&G

PROJECT NO.: 47182
PROJECT NAME: Green Square Block 8D
SEND REPORT TO: N Cowan SEND INVOICE TO: G Ng
DATE NEEDED BY: 3DP MT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: Chris D
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: ncowan@jbsg.com.au
QC LEVEL: NEPM (2013)

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	JB1	JB1T	JB1A	JB2	JB2A	B10	JB2/JBL	JB3/JBL	JB4	JBL	VOCs	OCP 27	PH	EC	8 Metals	TPH (incl)	PAH	BTEX	NOTES:
FC073 0.2-0.3	Soil	9/1/14		Sort Ice					X									X	X					
FC073 0.5-0.7				+ Ckg Bag																				
FC073 1.0-1.2																								
FC073 1.5-1.7									X								X	X	Y					
FC074 0.2-0.3									X															
FC074 0.8-1.0									X							X		X	X					
FC074 3.0-3.2									X															
QC04																		X	X	X	X	X		
									X							X								

RELINQUISHED BY:
NAME: Nathan DATE: 9/1/14
OF: JBS&G
NAME: DATE:
OF:

METHOD OF SHIPMENT:
CONSIGNMENT NOTE NO.
TRANSPORT CO.
CONSIGNMENT NOTE NO.
TRANSPORT CO

RECEIVED BY:
NAME: Ellen WG DATE: 130114
OF: Eflmgt 1700
NAME: DATE:
OF:

FOR RECEIVING LAB USE ONLY:
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - eurofins mgt

JB1 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1T - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos
JB2 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
B10 - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2/JBL - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)
JB3/JBL - TRH/BTEX/PAH/OCP/OPP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)/Asbestos
JB4 - TRH/BTEX/VOC
JBL - TCLP(PAH & 6 Metals)

PICKFORD & RHYDER CONSULTING PTY LTD
ABN 17 105 546 076
Occupational Hygiene Measurements and Solutions.

PO Box 1422 Lane Cove 1595
Rear - 244 Burns Bay Road
Lane Cove NSW Australia
Phone: (02) 9418 9151
Fax: (02) 9418 9150

16 January 2014

N. Cussen
JBS&G (NSW & WA) Pty Ltd
Level 1
50 Margaret Street
SYDNEY NSW 2000

Email: ncussen@jbsg.com.au,

CERTIFICATE OF ANALYSIS – ASBESTOS IDENTIFICATION

YOUR REFERENCE/JOB No: 43182
TYPE OF SAMPLES: Bulk sample - as received from Envirolab Services
SITE LOCATION: Green Square Block 8B
DATE SAMPLED: 8 January 2014 **DATE RECEIVED:** 15 January 2014
OUR REFERENCE: 77789-ID

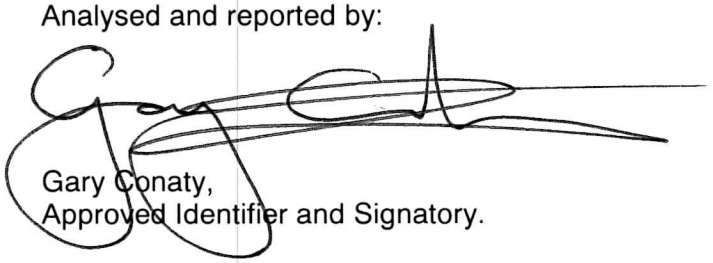
TEST METHOD: Soil samples examined by Stereomicroscopy and Polarized Light Microscopy (with Dispersion Staining) in accordance with AS 4964-2004: - 'Method for the qualitative identification of asbestos in bulk samples' as outlined in Laboratory Method ID/1. The Reporting Limit for the results in this Certificate is numerically equal to the lowest detection limit of 0.1 g/kg. Trace asbestos analysis has been conducted on each sample, which is generally designed to detect 'respirable' asbestos fibres (ie less than 3 micrometres in width) distributed throughout the sample.

Sample No	*Lab No*	*Sample Information*	*Analysis Result*	*Description*
QC04-A	77789	Soil sample as received	No asbestos detected	The sample was a grey soil with stones, of total approximate weight 524 g, in which organic fibres were detected in the +2 mm and -2mm fraction. No asbestos fibres were detected in the +2 mm fraction. No asbestos fibres were detected in a representative sub-sample of the –2 mm fraction. No asbestos fibres were found at the Reporting Limit of 0.1g/kg.

All sampling and site work has been undertaken by the client - the analytical procedures and results reported on this Certificate have been conducted by Pickford & Rhyder Consulting.

Sampling is not covered by the scope of accreditation.

Analysed and reported by:



Gary Conaty,
Approved Identifier and Signatory.

NATA
ACCREDITED FOR TECHNICAL COMPETENCE

Accredited for compliance with ISO/IEC 17025. This document shall not be reproduced except in full.

Accreditation number 2515

77789

12 Ashley Street
Chatswood
NSW 2067

For RCL

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 43192
PROJECT NAME: Green Square Block 8B
SEND REPORT TO: N Cussen SEND INVOICE TO: G NC
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: Chris
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: ncussen@jbsg.com.au
QC LEVEL: NEPM (2013)

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	COMBO SUITES: SOIL - 4	SOIL – 4L	SOIL – 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER – 1m	WATER – 2L	WATER – 3L	Asbestos	NOTES:
QC04-A	Soil	8/1/14		Bag												x	

RELINQUISHED BY:
NAME: Nathan DATE: 10/1/14
OF: JBS&G
NAME: DATE: 15/1/14
OF:

METHOD OF SHIPMENT:
CONSIGNMENT NOTE NO.
TRANSPORT CO.
CONSIGNMENT NOTE NO.
TRANSPORT CO

RECEIVED BY:
NAME:
DATE:
OF:
NAME: DATE:
OF:

FOR RECEIVING LAB USE ONLY:
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO Forms013 – Chain of Custody – Envirolab

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

Recd by JM
15/1/14
930

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

TAX INVOICE

INVOICE NO: SY 110757
INVOICING DATE: 20/01/14
ENVIROLAB REPORT NO: 103461
PAYMENT DUE DATE: 19/02/2014

To: JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney NSW 2000

Attention: Grace Ng

PROJECT NO and DESCRIPTION: 43182, Green Square Block 8B

PURCHASE ORDER NUMBER:

Tests Performed / Description of Service	Unit Cost	Qty	Total Cost
Admin Fee	$25.00	1	$25.00
10% batch discount	-$20.70	1	-$20.70
Combination 5-TRH,BTEX,PAH,OC,PCB,8Metals in soil	$138.00	1	$138.00
VOC's in soil	$69.00	1	$69.00
Invoice and GST Summary Details	**Total Amount:**		$211.30
	GST (10%):		$21.13
	Total Invoice Amount:		$232.43

INVOICE PAYMENT OPTIONS

Please make all cheques payable to : **Envirolab Services Pty Ltd**

Please EFT to: **Account Name: Envirolab Services Pty Ltd**
NAB SWIFT Code - NATAAU3303M
Bank: National Australia Bank Branch: Marrickville NSW
BSB: 082 356 Account No: 57981 3018

Remittance advices should be faxed/emailed Fax No: 02 9910 6299 e-mail: accounts@envirolabservices.com.au

Visa and Mastercard payments are accepted.

PLEASE NOTE: OUR PAYMENT TERMS ARE STRICTLY 30 DAYS FROM DATE OF INVOICE

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

CERTIFICATE OF ANALYSIS 103461

Client:
JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention: Joanne Rosner, Nathan Cussen

Sample log in details:

Your Reference:	**43182, Green Square Block 8B**		
No. of samples:	1 soil		
Date samples received / completed instructions received	14/01/14	/	14/01/14

Analysis Details:
Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by: / Issue Date:	21/01/14	/	20/01/14
Date of Preliminary Report:	Not issued		

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Accredited for compliance with ISO/IEC 17025. **Tests not covered by NATA are denoted with *.**

Results Approved By:

Jacinta Hurst
Laboratory Manager

VOCs in soil Our Reference: Your Reference Date Sampled Type of sample	UNITS ---------- ----------	 103461-1 QC04-A 08/01/2014 soil
Date extracted	-	15/01/2014
Date analysed	-	16/01/2014
Dichlorodifluoromethane	mg/kg	<1
Chloromethane	mg/kg	<1
Vinyl Chloride	mg/kg	<1
Bromomethane	mg/kg	<1
Chloroethane	mg/kg	<1
Trichlorofluoromethane	mg/kg	<1
1,1-Dichloroethene	mg/kg	<1
trans-1,2-dichloroethene	mg/kg	<1
1,1-dichloroethane	mg/kg	<1
cis-1,2-dichloroethene	mg/kg	<1
bromochloromethane	mg/kg	<1
chloroform	mg/kg	<1
2,2-dichloropropane	mg/kg	<1
1,2-dichloroethane	mg/kg	<1
1,1,1-trichloroethane	mg/kg	<1
1,1-dichloropropene	mg/kg	<1
Cyclohexane	mg/kg	<1
carbon tetrachloride	mg/kg	<1
Benzene	mg/kg	<0.2
dibromomethane	mg/kg	<1
1,2-dichloropropane	mg/kg	<1
trichloroethene	mg/kg	<1
bromodichloromethane	mg/kg	<1
trans-1,3-dichloropropene	mg/kg	<1
cis-1,3-dichloropropene	mg/kg	<1
1,1,2-trichloroethane	mg/kg	<1
Toluene	mg/kg	<0.5
1,3-dichloropropane	mg/kg	<1
dibromochloromethane	mg/kg	<1
1,2-dibromoethane	mg/kg	<1
tetrachloroethene	mg/kg	<1
1,1,1,2-tetrachloroethane	mg/kg	<1
chlorobenzene	mg/kg	<1
Ethylbenzene	mg/kg	<1
bromoform	mg/kg	<1
m+p-xylene	mg/kg	<2
styrene	mg/kg	<1
1,1,2,2-tetrachloroethane	mg/kg	<1
o-Xylene	mg/kg	<1
1,2,3-trichloropropane	mg/kg	<1

VOCs in soil		
Our Reference:	UNITS	103461-1
Your Reference	----------	QC04-A
Date Sampled	----------	08/01/2014
Type of sample		soil
isopropylbenzene	mg/kg	<1
bromobenzene	mg/kg	<1
n-propyl benzene	mg/kg	<1
2-chlorotoluene	mg/kg	<1
4-chlorotoluene	mg/kg	<1
1,3,5-trimethyl benzene	mg/kg	<1
tert-butyl benzene	mg/kg	<1
1,2,4-trimethyl benzene	mg/kg	<1
1,3-dichlorobenzene	mg/kg	<1
sec-butyl benzene	mg/kg	<1
1,4-dichlorobenzene	mg/kg	<1
4-isopropyl toluene	mg/kg	<1
1,2-dichlorobenzene	mg/kg	<1
n-butyl benzene	mg/kg	<1
1,2-dibromo-3-chloropropane	mg/kg	<1
1,2,4-trichlorobenzene	mg/kg	<1
hexachlorobutadiene	mg/kg	<1
1,2,3-trichlorobenzene	mg/kg	<1
Surrogate Dibromofluorometha	%	88
Surrogate aaa-Trifluorotoluene	%	94
Surrogate Toluene-d_8	%	94
Surrogate 4-Bromofluorobenzene	%	108

vTRH(C6-C10)/BTEXN in Soil		
Our Reference:	UNITS	103461-1
Your Reference	----------	QC04-A
Date Sampled	----------	08/01/2014
Type of sample		soil
Date extracted	-	15/01/2014
Date analysed	-	16/01/2014
TRHC$_6$ - C$_9$	mg/kg	<25
TRHC$_6$ - C$_{10}$	mg/kg	<25
vTPHC$_6$ - C$_{10}$ less BTEX (F1)	mg/kg	<25
Benzene	mg/kg	<0.2
Toluene	mg/kg	<0.5
Ethylbenzene	mg/kg	<1
m+p-xylene	mg/kg	<2
o-Xylene	mg/kg	<1
naphthalene	mg/kg	<1
Surrogate aaa-Trifluorotoluene	%	94

svTRH (C10-C40) in Soil		
Our Reference:	UNITS	103461-1
Your Reference	----------	QC04-A
Date Sampled	----------	08/01/2014
Type of sample		soil
Date extracted	-	15/01/2014
Date analysed	-	16/01/2014
TRHC$_{10}$ - C$_{14}$	mg/kg	<50
TRHC$_{15}$ - C$_{28}$	mg/kg	<100
TRHC$_{29}$ - C$_{36}$	mg/kg	<100
TRH>C$_{10}$-C$_{16}$	mg/kg	<50
TRH>C$_{10}$ - C$_{16}$ less Naphthalene (F2)	mg/kg	<50
TRH>C$_{16}$-C$_{34}$	mg/kg	<100
TRH>C$_{34}$-C$_{40}$	mg/kg	<100
Surrogate o-Terphenyl	%	88

PAHs in Soil		
Our Reference:	UNITS	103461-1
Your Reference	----------	QC04-A
Date Sampled	----------	08/01/2014
Type of sample		soil
Date extracted	-	15/01/2014
Date analysed	-	16/01/2014
Naphthalene	mg/kg	<0.1
Acenaphthylene	mg/kg	<0.1
Acenaphthene	mg/kg	<0.1
Fluorene	mg/kg	<0.1
Phenanthrene	mg/kg	0.2
Anthracene	mg/kg	<0.1
Fluoranthene	mg/kg	0.4
Pyrene	mg/kg	0.4
Benzo(a)anthracene	mg/kg	0.2
Chrysene	mg/kg	0.2
Benzo(b+k)fluoranthene	mg/kg	0.5
Benzo(a)pyrene	mg/kg	0.26
Indeno(1,2,3-c,d)pyrene	mg/kg	0.2
Dibenzo(a,h)anthracene	mg/kg	<0.1
Benzo(g,h,i)perylene	mg/kg	0.2
Benzo(a)pyrene TEQ NEPM B1	mg/kg	<0.5
Total +ve PAH's	mg/kg	2.4
Surrogate p-Terphenyl-d14	%	114

Organochlorine Pesticides in soil		
Our Reference:	UNITS	103461-1
Your Reference	----------	QC04-A
Date Sampled	----------	08/01/2014
Type of sample		soil
Date extracted	-	15/01/2014
Date analysed	-	16/01/2014
HCB	mg/kg	<0.1
alpha-BHC	mg/kg	<0.1
gamma-BHC	mg/kg	<0.1
beta-BHC	mg/kg	<0.1
Heptachlor	mg/kg	<0.1
delta-BHC	mg/kg	<0.1
Aldrin	mg/kg	<0.1
Heptachlor Epoxide	mg/kg	<0.1
gamma-Chlordane	mg/kg	<0.1
alpha-chlordane	mg/kg	<0.1
Endosulfan I	mg/kg	<0.1
pp-DDE	mg/kg	<0.1
Dieldrin	mg/kg	<0.1
Endrin	mg/kg	<0.1
pp-DDD	mg/kg	<0.1
Endosulfan II	mg/kg	<0.1
pp-DDT	mg/kg	<0.1
Endrin Aldehyde	mg/kg	<0.1
Endosulfan Sulphate	mg/kg	<0.1
Methoxychlor	mg/kg	<0.1
Surrogate TCMX	%	93

PCBs in Soil		
Our Reference:	UNITS	103461-1
Your Reference	----------	QC04-A
Date Sampled	----------	08/01/2014
Type of sample		soil
Date extracted	-	15/01/2014
Date analysed	-	16/01/2014
Arochlor 1016	mg/kg	<0.1
Arochlor 1221	mg/kg	<0.1
Arochlor 1232	mg/kg	<0.1
Arochlor 1242	mg/kg	<0.1
Arochlor 1248	mg/kg	<0.1
Arochlor 1254	mg/kg	<0.1
Arochlor 1260	mg/kg	<0.1
Surrogate TCLMX	%	93

Acid Extractable metals in soil		
Our Reference:	UNITS	103461-1
Your Reference	----------	QC04-A
Date Sampled	----------	08/01/2014
Type of sample		soil
Date digested	-	15/01/2014
Date analysed	-	15/01/2014
Arsenic	mg/kg	9
Cadmium	mg/kg	1
Chromium	mg/kg	50
Copper	mg/kg	110
Lead	mg/kg	61
Mercury	mg/kg	<0.1
Nickel	mg/kg	22
Zinc	mg/kg	350

Moisture		
Our Reference:	UNITS	103461-1
Your Reference	----------	QC04-A
Date Sampled	----------	08/01/2014
Type of sample		soil
Date prepared	-	15/01/2014
Date analysed	-	16/01/2014
Moisture	%	5.2

Method ID	Methodology Summary
Org-014	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-016	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-003	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note Naphthalene is determined from the VOC analysis.
Org-012 subset	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.
Org-005	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.
Org-006	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.
Metals-020 ICP-AES	Determination of various metals by ICP-AES.
Metals-021 CV-AAS	Determination of Mercury by Cold Vapour AAS.
Inorg-008	Moisture content determined by heating at 105+/-5 deg C for a minimum of 12 hours.

QUALITY CONTROL VOCs in soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			15/01/2014	[NT]	[NT]	LCS-2	15/01/2014
Date analysed	-			16/01/2014	[NT]	[NT]	LCS-2	16/01/2014
Dichlorodifluoromethane	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
Chloromethane	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
Vinyl Chloride	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
Bromomethane	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
Chloroethane	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
Trichlorofluoromethane	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
1,1-Dichloroethene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
trans-1,2-dichloroethene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
1,1-dichloroethane	mg/kg	1	Org-014	<1	[NT]	[NT]	LCS-2	119%
cis-1,2-dichloroethene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
bromochloromethane	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
chloroform	mg/kg	1	Org-014	<1	[NT]	[NT]	LCS-2	116%
2,2-dichloropropane	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
1,2-dichloroethane	mg/kg	1	Org-014	<1	[NT]	[NT]	LCS-2	103%
1,1,1-trichloroethane	mg/kg	1	Org-014	<1	[NT]	[NT]	LCS-2	105%
1,1-dichloropropene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
Cyclohexane	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
carbon tetrachloride	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
Benzene	mg/kg	0.2	Org-014	<0.2	[NT]	[NT]	[NR]	[NR]
dibromomethane	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
1,2-dichloropropane	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
trichloroethene	mg/kg	1	Org-014	<1	[NT]	[NT]	LCS-2	89%
bromodichloromethane	mg/kg	1	Org-014	<1	[NT]	[NT]	LCS-2	79%
trans-1,3-dichloropropene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
cis-1,3-dichloropropene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
1,1,2-trichloroethane	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
Toluene	mg/kg	0.5	Org-014	<0.5	[NT]	[NT]	[NR]	[NR]
1,3-dichloropropane	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
dibromochloromethane	mg/kg	1	Org-014	<1	[NT]	[NT]	LCS-2	68%
1,2-dibromoethane	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
tetrachloroethene	mg/kg	1	Org-014	<1	[NT]	[NT]	LCS-2	104%
1,1,1,2-tetrachloroethane	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
chlorobenzene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
Ethylbenzene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
bromoform	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
m+p-xylene	mg/kg	2	Org-014	<2	[NT]	[NT]	[NR]	[NR]
styrene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
1,1,2,2-tetrachloroethane	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
o-Xylene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
1,2,3-trichloropropane	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]

QUALITY CONTROL VOCs in soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
isopropylbenzene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
bromobenzene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
n-propyl benzene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
2-chlorotoluene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
4-chlorotoluene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
1,3,5-trimethyl benzene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
tert-butyl benzene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
1,2,4-trimethyl benzene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
1,3-dichlorobenzene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
sec-butyl benzene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
1,4-dichlorobenzene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
4-isopropyl toluene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
1,2-dichlorobenzene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
n-butyl benzene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
1,2-dibromo-3-chloropropane	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
1,2,4-trichlorobenzene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
hexachlorobutadiene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
1,2,3-trichlorobenzene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
Surrogate Dibromofluorometha	%		Org-014	95	[NT]	[NT]	LCS-2	111%
Surrogate aaa-Trifluorotoluene	%		Org-014	99	[NT]	[NT]	LCS-2	97%
Surrogate Toluene-d_8	%		Org-014	96	[NT]	[NT]	LCS-2	92%
Surrogate 4-Bromofluorobenzene	%		Org-014	109	[NT]	[NT]	LCS-2	107%

QUALITY CONTROL vTRH(C6-C10)/BTEXN in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			15/01/2014	[NT]	[NT]	LCS-2	15/01/2014
Date analysed	-			16/01/2014	[NT]	[NT]	LCS-2	16/01/2014
TRHC$_6$ - C$_9$	mg/kg	25	Org-016	<25	[NT]	[NT]	LCS-2	100%
TRHC$_6$ - C$_{10}$	mg/kg	25	Org-016	<25	[NT]	[NT]	LCS-2	100%
Benzene	mg/kg	0.2	Org-016	<0.2	[NT]	[NT]	LCS-2	89%
Toluene	mg/kg	0.5	Org-016	<0.5	[NT]	[NT]	LCS-2	98%
Ethylbenzene	mg/kg	1	Org-016	<1	[NT]	[NT]	LCS-2	102%
m+p-xylene	mg/kg	2	Org-016	<2	[NT]	[NT]	LCS-2	106%
o-Xylene	mg/kg	1	Org-016	<1	[NT]	[NT]	LCS-2	107%
naphthalene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
Surrogate aaa-Trifluorotoluene	%		Org-016	99	[NT]	[NT]	LCS-2	101%
QUALITY CONTROL svTRH (C10-C40) in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			15/01/2014	[NT]	[NT]	LCS-2	15/01/2014
Date analysed	-			16/01/2014	[NT]	[NT]	LCS-2	16/01/2014
TRHC$_{10}$ - C$_{14}$	mg/kg	50	Org-003	<50	[NT]	[NT]	LCS-2	118%
TRHC$_{15}$ - C$_{28}$	mg/kg	100	Org-003	<100	[NT]	[NT]	LCS-2	109%
TRHC$_{29}$ - C$_{36}$	mg/kg	100	Org-003	<100	[NT]	[NT]	LCS-2	87%
TRH>C$_{10}$-C$_{16}$	mg/kg	50	Org-003	<50	[NT]	[NT]	LCS-2	118%
TRH>C$_{16}$-C$_{34}$	mg/kg	100	Org-003	<100	[NT]	[NT]	LCS-2	109%
TRH>C$_{34}$-C$_{40}$	mg/kg	100	Org-003	<100	[NT]	[NT]	LCS-2	87%
Surrogate o-Terphenyl	%		Org-003	88	[NT]	[NT]	LCS-2	100%
QUALITY CONTROL PAHs in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			15/01/2014	[NT]	[NT]	LCS-2	15/01/2014
Date analysed	-			16/01/2014	[NT]	[NT]	LCS-2	16/01/2014
Naphthalene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-2	109%
Acenaphthylene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Acenaphthene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Fluorene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-2	109%
Phenanthrene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-2	112%
Anthracene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Fluoranthene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-2	112%

QUALITY CONTROL PAHs in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base II Duplicate II %RPD	Spike Sm#	Spike % Recovery
Pyrene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-2	118%
Benzo(a)anthracene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Chrysene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-2	119%
Benzo(b+k)fluoranthene	mg/kg	0.2	Org-012 subset	<0.2	[NT]	[NT]	[NR]	[NR]
Benzo(a)pyrene	mg/kg	0.05	Org-012 subset	<0.05	[NT]	[NT]	LCS-2	135%
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Surrogate p-Terphenyl-d14	%		Org-012 subset	115	[NT]	[NT]	LCS-2	109%

QUALITY CONTROL Organochlorine Pesticides in soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base II Duplicate II %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			15/01/2014	[NT]	[NT]	LCS-2	15/01/2014
Date analysed	-			16/01/2014	[NT]	[NT]	LCS-2	16/01/2014
HCB	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
alpha-BHC	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-2	105%
gamma-BHC	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
beta-BHC	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-2	102%
Heptachlor	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-2	107%
delta-BHC	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
Aldrin	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-2	109%
Heptachlor Epoxide	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-2	108%
gamma-Chlordane	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
alpha-chlordane	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
Endosulfan I	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
pp-DDE	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-2	102%
Dieldrin	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-2	109%
Endrin	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-2	100%
pp-DDD	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-2	115%
Endosulfan II	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
pp-DDT	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
Endrin Aldehyde	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
Endosulfan Sulphate	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-2	108%
Methoxychlor	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
Surrogate TCMX	%		Org-005	91	[NT]	[NT]	LCS-2	91%

QUALITY CONTROL PCBs in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			15/01/2014	[NT]	[NT]	LCS-2	15/01/2014
Date analysed	-			16/01/2014	[NT]	[NT]	LCS-2	16/01/2014
Arochlor 1016	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1221	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1232	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1242	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1248	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1254	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	LCS-2	93%
Arochlor 1260	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Surrogate TCLMX	%		Org-006	91	[NT]	[NT]	LCS-2	87%
QUALITY CONTROL Acid Extractable metals in soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date digested	-			15/01/2014	[NT]	[NT]	LCS-6	15/01/2014
Date analysed	-			15/01/2014	[NT]	[NT]	LCS-6	15/01/2014
Arsenic	mg/kg	4	Metals-020 ICP-AES	<4	[NT]	[NT]	LCS-6	97%
Cadmium	mg/kg	0.4	Metals-020 ICP-AES	<0.4	[NT]	[NT]	LCS-6	107%
Chromium	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-6	104%
Copper	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-6	100%
Lead	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-6	101%
Mercury	mg/kg	0.1	Metals-021 CV-AAS	<0.1	[NT]	[NT]	LCS-6	80%
Nickel	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-6	103%
Zinc	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-6	106%

QUALITY CONTROL Moisture	UNITS	PQL	METHOD	Blank
Date prepared	-			[NT]
Date analysed	-			[NT]
Moisture	%	0.1	Inorg-008	<0.1

Report Comments:

Asbestos ID was analysed by Approved Identifier:	Not applicable for this job
Asbestos ID was authorised by Approved Signatory:	Not applicable for this job

INS: Insufficient sample for this test	PQL: Practical Quantitation Limit	NT: Not tested
NA: Test not required	RPD: Relative Percent Difference	NA: Test not required
<: Less than	>: Greater than	LCS: Laboratory Control Sample

Quality Control Definitions

Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

Duplicate: This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

Matrix Spike : A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

LCS (Laboratory Control Sample) : This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Surrogate Spike: Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.
Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.
Spikes for Physical and Aggregate Tests are not applicable.
For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.
Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for SVOC and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

12 Ashley Street
Chatswood
NSW 2067

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square Block 8B
SEND REPORT TO: N Cussen SEND INVOICE TO: GNG
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: Chris
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: ncussen@jbsg.com.au
QC LEVEL: NEPM (2013)

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	COMBO SUITES: SOIL - 1	SOIL – 4L	SOIL – 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER – 1m	WATER – 2L	WATER – 3L	NOTES:
QC04 - A	soil	8/1/14		Jcs + Ice					X							

Envirolab Service
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200
Job No: 13461
Date Received 14/1
Time Received 9:00
Received by SK
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

RELINQUISHED BY:
NAME: Natha DATE: 6/1/14
OF: JBS&G
NAME: DATE:
OF:

METHOD OF SHIPMENT:
CONSIGNMENT NOTE NO.
TRANSPORT CO.
CONSIGNMENT NOTE NO.
TRANSPORT CO

RECEIVED BY:
NAME: Sepuli
DATE:
OF: ES
NAME: DATE:
OF:

FOR RECEIVING LAB USE ONLY:
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Envirolab

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

SAMPLE RECEIPT ADVICE

Client:

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney NSW 2000

ph: 02 8245 0300
Fax: 02 8245 0399

Attention: Joanne Rosner, Nathan Cussen

Sample log in details:

Your reference:	**43182, Green Square Block 8B**
Envirolab Reference:	**103459**
Date received:	14/01/14
Date results expected to be reported:	**21/01/14**

Samples received in appropriate condition for analysis:	YES
No. of samples provided	1 soil
Turnaround time requested:	Standard
Temperature on receipt (°C)	NA
Cooling Method:	None
Sampling Date Provided:	YES

Comments:

Samples will be held for 1 month for water samples and 2 months for soil samples from date of receipt of samples.

Contact details:

Please direct any queries to Aileen Hie or Jacinta Hurst
ph: 02 9910 6200 fax: 02 9910 6201
email: ahie@envirolabservices.com.au or jhurst@envirolabservices.com.au

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

CERTIFICATE OF ANALYSIS 103459

Client:
JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention: Joanne Rosner, Nathan Cussen

Sample log in details:

Your Reference:	**43182, Green Square Block 8B**		
No. of samples:	1 soil		
Date samples received / completed instructions received	14/01/14	/	14/01/14

Analysis Details:
Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by: / Issue Date:	21/01/14	/	17/01/14
Date of Preliminary Report:	Not issued		

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Accredited for compliance with ISO/IEC 17025. **Tests not covered by NATA are denoted with *.**

Results Approved By:

Jacinta Hurst
Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil		
Our Reference:	UNITS	103459-1
Your Reference	----------	QC06-A
Date Sampled	----------	10/01/2014
Type of sample		soil
Date extracted	-	15/01/2014
Date analysed	-	16/01/2014
TRHC$_6$ - C$_9$	mg/kg	<25
TRHC$_6$ - C$_{10}$	mg/kg	<25
vTPHC$_6$ - C$_{10}$ less BTEX (F1)	mg/kg	<25
Benzene	mg/kg	<0.2
Toluene	mg/kg	<0.5
Ethylbenzene	mg/kg	<1
m+p-xylene	mg/kg	<2
o-Xylene	mg/kg	<1
naphthalene	mg/kg	<1
Surrogate aaa-Trifluorotoluene	%	96

svTRH (C10-C40) in Soil		
Our Reference:	UNITS	103459-1
Your Reference	----------	QC06-A
Date Sampled	----------	10/01/2014
Type of sample		soil
Date extracted	-	15/01/2014
Date analysed	-	16/01/2014
TRHC$_{10}$ - C$_{14}$	mg/kg	<50
TRHC$_{15}$ - C$_{28}$	mg/kg	<100
TRHC$_{29}$ - C$_{36}$	mg/kg	130
TRH>C$_{10}$-C$_{16}$	mg/kg	<50
TRH>C$_{10}$ - C$_{16}$ less Naphthalene (F2)	mg/kg	<50
TRH>C$_{16}$-C$_{34}$	mg/kg	160
TRH>C$_{34}$-C$_{40}$	mg/kg	<100
Surrogate o-Terphenyl	%	92

PAHs in Soil		
Our Reference:	UNITS	103459-1
Your Reference	----------	QC06-A
Date Sampled	----------	10/01/2014
Type of sample		soil
Date extracted	-	15/01/2014
Date analysed	-	16/01/2014
Naphthalene	mg/kg	<0.1
Acenaphthylene	mg/kg	0.2
Acenaphthene	mg/kg	<0.1
Fluorene	mg/kg	<0.1
Phenanthrene	mg/kg	1
Anthracene	mg/kg	0.2
Fluoranthene	mg/kg	2.5
Pyrene	mg/kg	2.7
Benzo(a)anthracene	mg/kg	1.4
Chrysene	mg/kg	1.5
Benzo(b+k)fluoranthene	mg/kg	2.8
Benzo(a)pyrene	mg/kg	1.9
Indeno(1,2,3-c,d)pyrene	mg/kg	1.4
Dibenzo(a,h)anthracene	mg/kg	0.2
Benzo(g,h,i)perylene	mg/kg	1.3
Benzo(a)pyrene TEQ NEPM B1	mg/kg	3.0
Total +ve PAH's	mg/kg	17
Surrogate p-Terphenyl-d14	%	119

Organochlorine Pesticides in soil		
Our Reference:	UNITS	103459-1
Your Reference	----------	QC06-A
Date Sampled	----------	10/01/2014
Type of sample		soil
Date extracted	-	15/01/2014
Date analysed	-	17/01/2014
HCB	mg/kg	<0.1
alpha-BHC	mg/kg	<0.1
gamma-BHC	mg/kg	<0.1
beta-BHC	mg/kg	<0.1
Heptachlor	mg/kg	<0.1
delta-BHC	mg/kg	<0.1
Aldrin	mg/kg	<0.1
Heptachlor Epoxide	mg/kg	<0.1
gamma-Chlordane	mg/kg	<0.1
alpha-chlordane	mg/kg	<0.1
Endosulfan I	mg/kg	<0.1
pp-DDE	mg/kg	<0.1
Dieldrin	mg/kg	<0.1
Endrin	mg/kg	<0.1
pp-DDD	mg/kg	<0.1
Endosulfan II	mg/kg	<0.1
pp-DDT	mg/kg	<0.1
Endrin Aldehyde	mg/kg	<0.1
Endosulfan Sulphate	mg/kg	<0.1
Methoxychlor	mg/kg	<0.1
Surrogate TCMX	%	99

PCBs in Soil		
Our Reference:	UNITS	103459-1
Your Reference	----------	QC06-A
Date Sampled	----------	10/01/2014
Type of sample		soil
Date extracted	-	15/01/2014
Date analysed	-	17/01/2014
Arochlor 1016	mg/kg	<0.1
Arochlor 1221	mg/kg	<0.1
Arochlor 1232	mg/kg	<0.1
Arochlor 1242	mg/kg	<0.1
Arochlor 1248	mg/kg	<0.1
Arochlor 1254	mg/kg	<0.1
Arochlor 1260	mg/kg	<0.1
Surrogate TCLMX	%	99

Acid Extractable metals in soil		
Our Reference:	UNITS	103459-1
Your Reference	----------	QC06-A
Date Sampled	----------	10/01/2014
Type of sample		soil
Date digested	-	15/01/2014
Date analysed	-	15/01/2014
Arsenic	mg/kg	5
Cadmium	mg/kg	2
Chromium	mg/kg	18
Copper	mg/kg	110
Lead	mg/kg	240
Mercury	mg/kg	1.0
Nickel	mg/kg	29
Zinc	mg/kg	330

Moisture		
Our Reference:	UNITS	103459-1
Your Reference	----------	QC06-A
Date Sampled	----------	10/01/2014
Type of sample		soil
Date prepared	-	15/01/2014
Date analysed	-	16/01/2014
Moisture	%	6.1

Method ID	Methodology Summary
Org-016	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-014	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-003	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note Naphthalene is determined from the VOC analysis.
Org-012 subset	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.
Org-005	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.
Org-006	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.
Metals-020 ICP-AES	Determination of various metals by ICP-AES.
Metals-021 CV-AAS	Determination of Mercury by Cold Vapour AAS.
Inorg-008	Moisture content determined by heating at 105+/-5 deg C for a minimum of 12 hours.

QUALITY CONTROL vTRH(C6-C10)/BTEXN in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			15/01/2014	[NT]	[NT]	LCS-2	15/01/2014
Date analysed	-			16/01/2014	[NT]	[NT]	LCS-2	16/01/2014
TRHC$_6$ - C$_9$	mg/kg	25	Org-016	<25	[NT]	[NT]	LCS-2	100%
TRHC$_6$ - C$_{10}$	mg/kg	25	Org-016	<25	[NT]	[NT]	LCS-2	100%
Benzene	mg/kg	0.2	Org-016	<0.2	[NT]	[NT]	LCS-2	89%
Toluene	mg/kg	0.5	Org-016	<0.5	[NT]	[NT]	LCS-2	98%
Ethylbenzene	mg/kg	1	Org-016	<1	[NT]	[NT]	LCS-2	102%
m+p-xylene	mg/kg	2	Org-016	<2	[NT]	[NT]	LCS-2	106%
o-Xylene	mg/kg	1	Org-016	<1	[NT]	[NT]	LCS-2	107%
naphthalene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
Surrogate aaa-Trifluorotoluene	%		Org-016	99	[NT]	[NT]	LCS-2	101%
QUALITY CONTROL svTRH (C10-C40) in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			15/01/2014	[NT]	[NT]	LCS-2	15/01/2014
Date analysed	-			16/01/2014	[NT]	[NT]	LCS-2	16/01/2014
TRHC$_{10}$ - C$_{14}$	mg/kg	50	Org-003	<50	[NT]	[NT]	LCS-2	118%
TRHC$_{15}$ - C$_{28}$	mg/kg	100	Org-003	<100	[NT]	[NT]	LCS-2	109%
TRHC$_{29}$ - C$_{36}$	mg/kg	100	Org-003	<100	[NT]	[NT]	LCS-2	87%
TRH>C$_{10}$-C$_{16}$	mg/kg	50	Org-003	<50	[NT]	[NT]	LCS-2	118%
TRH>C$_{16}$-C$_{34}$	mg/kg	100	Org-003	<100	[NT]	[NT]	LCS-2	109%
TRH>C$_{34}$-C$_{40}$	mg/kg	100	Org-003	<100	[NT]	[NT]	LCS-2	87%
Surrogate o-Terphenyl	%		Org-003	88	[NT]	[NT]	LCS-2	100%
QUALITY CONTROL PAHs in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			15/01/2014	[NT]	[NT]	LCS-2	15/01/2014
Date analysed	-			16/01/2014	[NT]	[NT]	LCS-2	16/01/2014
Naphthalene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-2	109%
Acenaphthylene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Acenaphthene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Fluorene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-2	109%
Phenanthrene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-2	112%
Anthracene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Fluoranthene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-2	112%

QUALITY CONTROL PAHs in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base II Duplicate II %RPD	Spike Sm#	Spike % Recovery
Pyrene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-2	118%
Benzo(a)anthracene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Chrysene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-2	119%
Benzo(b+k)fluoranthene	mg/kg	0.2	Org-012 subset	<0.2	[NT]	[NT]	[NR]	[NR]
Benzo(a)pyrene	mg/kg	0.05	Org-012 subset	<0.05	[NT]	[NT]	LCS-2	135%
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Surrogate p-Terphenyl-d14	%		Org-012 subset	115	[NT]	[NT]	LCS-2	109%
QUALITY CONTROL Organochlorine Pesticides in soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base II Duplicate II %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			15/01/2014	[NT]	[NT]	LCS-2	15/01/2014
Date analysed	-			17/01/2014	[NT]	[NT]	LCS-2	17/01/2014
HCB	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
alpha-BHC	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-2	105%
gamma-BHC	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
beta-BHC	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-2	102%
Heptachlor	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-2	107%
delta-BHC	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
Aldrin	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-2	109%
Heptachlor Epoxide	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-2	108%
gamma-Chlordane	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
alpha-chlordane	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
Endosulfan I	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
pp-DDE	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-2	102%
Dieldrin	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-2	109%
Endrin	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-2	100%
pp-DDD	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-2	115%
Endosulfan II	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
pp-DDT	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
Endrin Aldehyde	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
Endosulfan Sulphate	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-2	108%
Methoxychlor	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
Surrogate TCMX	%		Org-005	91	[NT]	[NT]	LCS-2	91%

QUALITY CONTROL PCBs in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			15/01/2014	[NT]	[NT]	LCS-2	15/01/2014
Date analysed	-			17/01/2014	[NT]	[NT]	LCS-2	17/01/2014
Arochlor 1016	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1221	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1232	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1242	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1248	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1254	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	LCS-2	93%
Arochlor 1260	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Surrogate TCLMX	%		Org-006	91	[NT]	[NT]	LCS-2	87%
QUALITY CONTROL Acid Extractable metals in soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date digested	-			15/01/2014	[NT]	[NT]	LCS-6	15/01/2014
Date analysed	-			15/01/2014	[NT]	[NT]	LCS-6	15/01/2014
Arsenic	mg/kg	4	Metals-020 ICP-AES	<4	[NT]	[NT]	LCS-6	97%
Cadmium	mg/kg	0.4	Metals-020 ICP-AES	<0.4	[NT]	[NT]	LCS-6	107%
Chromium	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-6	104%
Copper	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-6	100%
Lead	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-6	101%
Mercury	mg/kg	0.1	Metals-021 CV-AAS	<0.1	[NT]	[NT]	LCS-6	80%
Nickel	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-6	103%
Zinc	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-6	106%

QUALITY CONTROL Moisture	UNITS	PQL	METHOD	Blank
Date prepared	-			[NT]
Date analysed	-			[NT]
Moisture	%	0.1	Inorg-008	[NT]

Report Comments:

Asbestos ID was analysed by Approved Identifier:	Not applicable for this job
Asbestos ID was authorised by Approved Signatory:	Not applicable for this job

INS: Insufficient sample for this test	PQL: Practical Quantitation Limit	NT: Not tested
NA: Test not required	RPD: Relative Percent Difference	NA: Test not required
<: Less than	>: Greater than	LCS: Laboratory Control Sample

Quality Control Definitions

Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

Duplicate: This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

Matrix Spike : A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

LCS (Laboratory Control Sample) : This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Surrogate Spike: Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.
Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.
Spikes for Physical and Aggregate Tests are not applicable.
For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.
Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for SVOC and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Envirolab Services Pty Ltd
12 Ashley Street
Chatswood
NSW 2067

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square Block 16 A/B
SEND REPORT TO: N Cussen SEND INVOICE TO: G Ng
DATE NEEDED BY:
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: Chris B
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: ncussen@jbsg.com.au
QC LEVEL: NEPM (2013)

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	COMBO SUITES: SOIL - 4	SOIL – 4L	SOIL – 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER – 1m	WATER – 2L	WATER – 3L	NOTES:
QC06-A	Soil	10/1/14		Jar + Ice					X							

ENVIROLAB

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 143159
Date Received: 14/01
Time Received: 9:00
Received by: SES
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Nathen DATE: 10/1/14	CONSIGNMENT NOTE NO.	NAME: Sophie	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE:	
NAME: DATE:	CONSIGNMENT NOTE NO.	OF: ECS	COOLER TEMP ..... deg C
OF:	TRANSPORT CO	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
		OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Envirolab

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

SAMPLE RECEIPT ADVICE

Client:

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney NSW 2000

ph: 02 8245 0300
Fax: 02 8245 0399

Attention: Joanne Rosner, Nathan Cussen

Sample log in details:

Your reference:	**43182, Green Square Block 8B**
Envirolab Reference:	**103457**
Date received:	14/01/14
Date results expected to be reported:	**21/01/14**

Samples received in appropriate condition for analysis:	YES
No. of samples provided	8 soils
Turnaround time requested:	Standard
Temperature on receipt (°C)	NA
Cooling Method:	None
Sampling Date Provided:	YES

Comments:

Samples will be held for 1 month for water samples and 2 months for soil samples from date of receipt of samples.

Contact details:

Please direct any queries to Aileen Hie or Jacinta Hurst
ph: 02 9910 6200 fax: 02 9910 6201
email: ahie@envirolabservices.com.au or jhurst@envirolabservices.com.au

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

CERTIFICATE OF ANALYSIS 103457

Client:
JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention: Joanne Rosner, Nathan Cussen

Sample log in details:

Your Reference:	**43182, Green Square Block 8B**		
No. of samples:	8 soils		
Date samples received / completed instructions received	14/01/14	/	14/01/14

Analysis Details:
Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by: / Issue Date:	21/01/14	/	20/01/14
Date of Preliminary Report:	Not Issued		

NATA accreditation number 2901. This document shall not be reproduced except in full.
Accredited for compliance with ISO/IEC 17025. **Tests not covered by NATA are denoted with *.**

Results Approved By:

Jacinta Hurst
Laboratory Manager

Asbestos ID - soils WA						
Our Reference:	UNITS	103457-1	103457-3	103457-4	103457-5	103457-6
Your Reference	----------	FC073	FC073	FC073	FC074	FC074
Depth	----------	0.2-0.3	1.0-1.2	1.5-1.7	0.2-0.3	0.8-1.0
Date Sampled		08/01/2014	08/01/2014	08/01/2014	08/01/2014	08/01/2014
Type of sample		soil	soil	soil	soil	soil
Date analysed	-	17/01/2014	17/01/2014	17/01/2014	17/01/2014	17/01/2014
Sample mass tested	g	736.73g	790.32g	556.02g	622.55g	700.71g
Sample Description	-	Grey coarse-grained & rocks	Grey coarse-grained & rocks	Beige fine-grained clay soil	Grey coarse-grained & rocks	Pale white fine-grained soil
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected

Asbestos ID - soils WA			
Our Reference:	UNITS	103457-7	103457-8
Your Reference	----------	FC074	QC04
Depth	----------	3.0-3.2	-
Date Sampled		08/01/2014	08/01/2014
Type of sample		soil	soil
Date analysed	-	17/01/2014	17/01/2014
Sample mass tested	g	604.89g	653.59g
Sample Description	-	Pale beige coarse-grained soil	Grey fine-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected	No respirable fibres detected

Method ID	Methodology Summary
ASB-003	Asbestos ID - Minimum 500mL soil sample was analysed as recommended by "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.1g/kg as per AS4964-2004.

Report Comments:

This report is consistent with the analytical procedures and reporting recommendations in the Western Australian Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009.

Asbestos ID was analysed by Approved Identifier: Paul Ching
Asbestos ID was authorised by Approved Signatory: Paul Ching

INS: Insufficient sample for this test
NA: Test not required
<: Less than
PQL: Practical Quantitation Limit
RPD: Relative Percent Difference
>: Greater than
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NA: Test not required
LCS: Laboratory Control Sample

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Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

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12 Ashley Street
Chatswood
NSW 2067

Page 1 of 1

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 43187
PROJECT NAME: Green Square Block 8B
SEND REPORT TO: SEND INVOICE TO:
DATE NEEDED BY:
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS:
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL:
QC LEVEL: NEPM (2013)

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	COMBO SUITES: SOIL - 4	SOIL – 4L	SOIL – 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER – 1m	WATER – 2L	WATER – 3L	Asbestos (Dsn)	NOTES:
1	FC073 0.2-0.3	Soil	8/1/14		Bag											X		
2	FC073 0.5-0.7																	
3	FC073 1.0-1.2															X		
4	FC073 1.5-1.7															X		
5	FC074 0.2-0.3															X		
6	FC074 0.8-1.0															X		
7	FC074 3.0-3.2	↓	↓		↓											X		
8	QC04																	
	QC04-A	↓	↓		↓													

Please send to P&L

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

ENVIROLAB group

Job No: 10375-7
Date Received: 14.1.14
Time Received: 9:00
Received by: D F
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

RELINQUISHED BY:
NAME: Nathan DATE: 10/1/14
OF: JBS&G
NAME: DATE:
OF:

METHOD OF SHIPMENT:
CONSIGNMENT NOTE NO.
TRANSPORT CO.
CONSIGNMENT NOTE NO.
TRANSPORT CO

RECEIVED BY:
NAME: Daniel Ford
DATE: 14.1.14
OF: ES
NAME: DATE:
OF:

FOR RECEIVING LAB USE ONLY:
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Envirolab

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

eurofins | mgt

ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

Melbourne
3-5 Kingston Town Close
Oakleigh Vic 3166
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F6, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Sample Receipt Advice

Company name: **JBS & G (NSW & WA) Pty Ltd**

Contact name: Nathan Cussen
Client job number: GREEN SQUARE BLOCK 8A 43182
COC number: Not provided
Turn around time: 5 Day
Date/Time received: Jan 13, 2014 5:00 PM
Eurofins | mgt reference: **405424**

Sample information

☑ A detailed list of analytes logged into our LIMS, is included in the attached summary table.

☑ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt Sample Receipt : 7 degrees Celsius.

☑ All samples have been received as described on the above COC.

☑ COC has been completed correctly.

☑ Attempt to chill was evident.

☑ Appropriately preserved sample containers have been used.

☑ All samples were received in good condition.

☑ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.

☑ Organic samples had Teflon liners.

☒ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Contact notes

If you have any questions with respect to these samples please contact:

Jean Heng on Phone : (+61) (2) 9900 8400 or by e.mail: JeanHeng@eurofins.com.au

Results will be delivered electronically via e.mail to Nathan Cussen - ncussen@jbsg.com.au.

Eurofins | mgt Sample Receipt

eurofins | mgt

ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

Melbourne
3-5 Kingston Town Close
Oakleigh VIC 3166
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F6, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: GREEN SQUARE BLOCK 8A 43182

Order No.:
Report #: 405424
Phone: 02 8245 0300
Fax:

Received: Jan 13, 2014 5:00 PM
Due: Jan 21, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	JBS&G Suite 2
Laboratory where analysis is conducted									
Melbourne Laboratory - NATA Site # 1254 & 14271									
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794									
External Laboratory									
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**					
FC075 0.2-0.3	Jan 08, 2014		Soil	S14-Ja03510	X	X		X	X
FC075 0.6-0.8	Jan 08, 2014		Soil	S14-Ja03511			X		
FC075 0.8-1.0	Jan 08, 2014		Soil	S14-Ja03512	X	X		X	X
FC075 2.7-2.9	Jan 08, 2014		Soil	S14-Ja03513			X		
FC075 4.5-4.7	Jan 08, 2014		Soil	S14-Ja03514			X		
FC076 0.4-0.6	Jan 08, 2014		Soil	S14-Ja03515			X		
FC076 1.0-1.2	Jan 08, 2014		Soil	S14-Ja03516	X	X		X	X
FC076 1.8-2.0	Jan 08, 2014		Soil	S14-Ja03517			X		
FC076 3.8-4.0	Jan 08, 2014		Soil	S14-Ja03518			X		

eurofins | mgt

Certificate of Analysis

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Nathan Cussen**

Report **405424-S**
Client Reference GREEN SQUARE BLOCK 8A 43182
Received Date Jan 13, 2014

Client Sample ID **Sample Matrix** **Eurofins | mgt Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**FC075 0.2-0.3** **Soil** **S14-Ja03510** **Jan 08, 2014**	**FC075 0.8-1.0** **Soil** **S14-Ja03512** **Jan 08, 2014**	**FC076 1.0-1.2** **Soil** **S14-Ja03516** **Jan 08, 2014**
Total Recoverable Hydrocarbons - 1999 NEPM Fractions					
TRH C6-C9	20	mg/kg	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50
TRH C10-36 (Total)	50	mg/kg	< 50	< 50	< 50
BTEX					
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Xylenes - Total	0.3	mg/kg	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	116	126	124
Total Recoverable Hydrocarbons - 2013 NEPM Fractions					
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100
Polycyclic Aromatic Hydrocarbons					
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	0.6	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	0.7	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	0.8	< 0.5	< 0.5
Chrysene	0.5	mg/kg	0.6	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	1.1	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC075 0.2-0.3 Soil S14-Ja03510 Jan 08, 2014	FC075 0.8-1.0 Soil S14-Ja03512 Jan 08, 2014	FC076 1.0-1.2 Soil S14-Ja03516 Jan 08, 2014
Polycyclic Aromatic Hydrocarbons					
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	1.1	< 0.5	< 0.5
Total PAH	0.5	mg/kg	4.9	< 0.5	< 0.5
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	0.8	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	1.1	0.6	0.6
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	1.4	1.2	1.2
2-Fluorobiphenyl (surr.)	1	%	84	81	85
p-Terphenyl-d14 (surr.)	1	%	98	93	97
Organochlorine Pesticides					
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05
a-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05
b-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05
d-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Methoxychlor	0.2	mg/kg	< 0.2	< 0.2	< 0.2
Toxaphene	1	mg/kg	< 1	< 1	< 1
Dibutylchlorendate (surr.)	1	%	96	100	99
Tetrachloro-m-xylene (surr.)	1	%	71	82	81
Polychlorinated Biphenyls (PCB)					
Aroclor-1016	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Aroclor-1232	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Aroclor-1242	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Aroclor-1248	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Aroclor-1254	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Aroclor-1260	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Total PCB	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Dibutylchlorendate (surr.)	1	%	96	100	99
Conductivity (1:5 aqueous extract at 25°C)	5	uS/cm	180	86	63
pH (1:5 Aqueous extract)	0.1	units	8.8	8.0	7.3
% Moisture	0.1	%	13	16	17

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC075 0.2-0.3 Soil S14-Ja03510 Jan 08, 2014	FC075 0.8-1.0 Soil S14-Ja03512 Jan 08, 2014	FC076 1.0-1.2 Soil S14-Ja03516 Jan 08, 2014
Heavy Metals					
Arsenic	2	mg/kg	4.9	3.2	3.9
Cadmium	0.4	mg/kg	0.5	< 0.4	< 0.4
Chromium	5	mg/kg	49	< 5	< 5
Copper	5	mg/kg	75	< 5	14
Lead	5	mg/kg	100	17	6.1
Mercury	0.05	mg/kg	0.17	< 0.05	< 0.05
Nickel	5	mg/kg	46	< 5	< 5
Zinc	5	mg/kg	200	8.8	7.2

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Jan 14, 2014	14 Day
- Method: E004 Petroleum Hydrocarbons (TPH)			
BTEX	Sydney	Jan 14, 2014	14 Day
- Method: E029/E016 BTEX			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jan 14, 2014	14 Day
- Method: LM-LTM-ORG2010			
Polycyclic Aromatic Hydrocarbons	Sydney	Jan 14, 2014	14 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Organochlorine Pesticides	Sydney	Jan 14, 2014	14 Day
- Method: E013 Organochlorine Pesticides (OC)			
Polychlorinated Biphenyls (PCB)	Sydney	Jan 14, 2014	28 Day
- Method: E013 Polychlorinated Biphenyls (PCB)			
Metals M8	Sydney	Jan 14, 2014	28 Day
- Method: E022 Acid Extractable metals in Soils & E026 Mercury			
Conductivity (1:5 aqueous extract at 25°C)	Sydney	Jan 15, 2014	7 Day
- Method: E032.2 Electrical Conductivity (EC)			
pH (1:5 Aqueous extract)	Sydney	Jan 15, 2014	7 Day
- Method: E018.2 pH			
% Moisture	Sydney	Jan 14, 2014	28 Day
- Method: E005 Moisture Content			

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NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: GREEN SQUARE BLOCK 8A 43182

Order No.:
Report #: 405424
Phone: 02 8245 0300
Fax:

Received: Jan 13, 2014 5:00 PM
Due: Jan 21, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	JBS&G Suite 2
Laboratory where analysis is conducted									
Melbourne Laboratory - NATA Site # 1254 & 14271									
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794									
External Laboratory									
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**					
FC075 0.2-0.3	Jan 08, 2014		Soil	S14-Ja03510	X	X		X	X
FC075 0.6-0.8	Jan 08, 2014		Soil	S14-Ja03511			X		
FC075 0.8-1.0	Jan 08, 2014		Soil	S14-Ja03512	X	X		X	X
FC075 2.7-2.9	Jan 08, 2014		Soil	S14-Ja03513			X		
FC075 4.5-4.7	Jan 08, 2014		Soil	S14-Ja03514			X		
FC076 0.4-0.6	Jan 08, 2014		Soil	S14-Ja03515			X		
FC076 1.0-1.2	Jan 08, 2014		Soil	S14-Ja03516	X	X		X	X
FC076 1.8-2.0	Jan 08, 2014		Soil	S14-Ja03517			X		
FC076 3.8-4.0	Jan 08, 2014		Soil	S14-Ja03518			X		

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH C6-C10 less BTEX (F1)	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-BHC	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-BHC	mg/kg	< 0.05			0.05	Pass	
d-BHC	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-BHC (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.2			0.2	Pass	
Toxaphene	mg/kg	< 1			1	Pass	
Method Blank							
Polychlorinated Biphenyls (PCB)							
Aroclor-1016	mg/kg	< 0.5			0.5	Pass	
Aroclor-1232	mg/kg	< 0.5			0.5	Pass	
Aroclor-1242	mg/kg	< 0.5			0.5	Pass	
Aroclor-1248	mg/kg	< 0.5			0.5	Pass	
Aroclor-1254	mg/kg	< 0.5			0.5	Pass	
Aroclor-1260	mg/kg	< 0.5			0.5	Pass	
Total PCB	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	92			70-130	Pass	
TRH C10-C14	%	81			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	101			70-130	Pass	
Toluene	%	96			70-130	Pass	
Ethylbenzene	%	95			70-130	Pass	
m&p-Xylenes	%	95			70-130	Pass	
o-Xylene	%	105			70-130	Pass	
Xylenes - Total	%	98			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	110			70-130	Pass	
TRH C6-C10	%	92			70-130	Pass	
TRH >C10-C16	%	88			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	123			70-130	Pass	
Acenaphthylene	%	111			70-130	Pass	
Anthracene	%	124			70-130	Pass	
Benz(a)anthracene	%	120			70-130	Pass	
Benzo(a)pyrene	%	109			70-130	Pass	
Benzo(b&j)fluoranthene	%	111			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Benzo(g.h.i)perylene	%	96			70-130	Pass	
Benzo(k)fluoranthene	%	119			70-130	Pass	
Chrysene	%	121			70-130	Pass	
Dibenz(a.h)anthracene	%	89			70-130	Pass	
Fluoranthene	%	121			70-130	Pass	
Fluorene	%	124			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	93			70-130	Pass	
Naphthalene	%	122			70-130	Pass	
Phenanthrene	%	113			70-130	Pass	
Pyrene	%	118			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	99			70-130	Pass	
4.4'-DDD	%	107			70-130	Pass	
4.4'-DDE	%	94			70-130	Pass	
4.4'-DDT	%	101			70-130	Pass	
a-BHC	%	99			70-130	Pass	
Aldrin	%	102			70-130	Pass	
b-BHC	%	108			70-130	Pass	
d-BHC	%	102			70-130	Pass	
Dieldrin	%	100			70-130	Pass	
Endosulfan I	%	102			70-130	Pass	
Endosulfan II	%	103			70-130	Pass	
Endosulfan sulphate	%	107			70-130	Pass	
Endrin	%	98			70-130	Pass	
Endrin aldehyde	%	99			70-130	Pass	
Endrin ketone	%	103			70-130	Pass	
g-BHC (Lindane)	%	99			70-130	Pass	
Heptachlor	%	95			70-130	Pass	
Heptachlor epoxide	%	99			70-130	Pass	
Hexachlorobenzene	%	84			70-130	Pass	
Methoxychlor	%	101			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls (PCB)							
Aroclor-1260	%	84			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	87			70-130	Pass	
Cadmium	%	93			70-130	Pass	
Chromium	%	99			70-130	Pass	
Copper	%	105			70-130	Pass	
Lead	%	95			70-130	Pass	
Nickel	%	103			70-130	Pass	
Zinc	%	108			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S14-Ja03581	NCP	%	87			70-130	Pass	
TRH C10-C14	S14-Ja03581	NCP	%	73			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S14-Ja03581	NCP	%	100			70-130	Pass	
Toluene	S14-Ja03581	NCP	%	95			70-130	Pass	
Ethylbenzene	S14-Ja03581	NCP	%	95			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
m&p-Xylenes	S14-Ja03581	NCP	%	97			70-130	Pass	
o-Xylene	S14-Ja03581	NCP	%	106			70-130	Pass	
Xylenes - Total	S14-Ja03581	NCP	%	100			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S14-Ja03581	NCP	%	94			70-130	Pass	
TRH C6-C10	S14-Ja03581	NCP	%	97			70-130	Pass	
TRH >C10-C16	S14-Ja03581	NCP	%	76			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S14-Ja03581	NCP	%	120			70-130	Pass	
Acenaphthylene	S14-Ja03581	NCP	%	106			70-130	Pass	
Anthracene	S14-Ja03581	NCP	%	121			70-130	Pass	
Benz(a)anthracene	S14-Ja03581	NCP	%	121			70-130	Pass	
Benzo(a)pyrene	S14-Ja03581	NCP	%	115			70-130	Pass	
Benzo(b&j)fluoranthene	S14-Ja03581	NCP	%	114			70-130	Pass	
Benzo(g.h.i)perylene	S14-Ja03581	NCP	%	107			70-130	Pass	
Benzo(k)fluoranthene	S14-Ja03581	NCP	%	121			70-130	Pass	
Chrysene	S14-Ja03581	NCP	%	120			70-130	Pass	
Dibenz(a.h)anthracene	S14-Ja03581	NCP	%	94			70-130	Pass	
Fluoranthene	S14-Ja03581	NCP	%	125			70-130	Pass	
Fluorene	S14-Ja03581	NCP	%	115			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja03581	NCP	%	103			70-130	Pass	
Naphthalene	S14-Ja03581	NCP	%	119			70-130	Pass	
Phenanthrene	S14-Ja03581	NCP	%	117			70-130	Pass	
Pyrene	S14-Ja03581	NCP	%	125			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S14-Ja03510	CP	%	88			70-130	Pass	
4.4'-DDD	S14-Ja03510	CP	%	110			70-130	Pass	
4.4'-DDE	S14-Ja03510	CP	%	104			70-130	Pass	
4.4'-DDT	S14-Ja03510	CP	%	76			70-130	Pass	
a-BHC	S14-Ja03510	CP	%	104			70-130	Pass	
Aldrin	S14-Ja03510	CP	%	98			70-130	Pass	
b-BHC	S14-Ja03510	CP	%	108			70-130	Pass	
d-BHC	S14-Ja03510	CP	%	112			70-130	Pass	
Dieldrin	S14-Ja03510	CP	%	90			70-130	Pass	
Endosulfan I	S14-Ja03510	CP	%	89			70-130	Pass	
Endosulfan II	S14-Ja03510	CP	%	92			70-130	Pass	
Endosulfan sulphate	S14-Ja03510	CP	%	92			70-130	Pass	
Endrin	S14-Ja03510	CP	%	100			70-130	Pass	
Endrin aldehyde	S14-Ja03510	CP	%	87			70-130	Pass	
Endrin ketone	S14-Ja03510	CP	%	100			70-130	Pass	
g-BHC (Lindane)	S14-Ja03510	CP	%	106			70-130	Pass	
Heptachlor	S14-Ja03510	CP	%	86			70-130	Pass	
Heptachlor epoxide	S14-Ja03510	CP	%	95			70-130	Pass	
Hexachlorobenzene	S14-Ja03510	CP	%	87			70-130	Pass	
Methoxychlor	S14-Ja03510	CP	%	129			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S14-Ja03581	NCP	%	95			70-130	Pass	
Cadmium	S14-Ja03581	NCP	%	95			70-130	Pass	
Chromium	S14-Ja03581	NCP	%	93			70-130	Pass	
Copper	S14-Ja03581	NCP	%	127			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Lead	S14-Ja03581	NCP	%	75			70-130	Pass	
Mercury	S14-Ja03581	NCP	%	87			70-130	Pass	
Nickel	S14-Ja03581	NCP	%	93			70-130	Pass	
Zinc	S14-Ja03581	NCP	%	120			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S14-Ja03581	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S14-Ja03598	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S14-Ja03598	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S14-Ja03598	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S14-Ja03581	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S14-Ja03581	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S14-Ja03581	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S14-Ja03581	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S14-Ja03581	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total	S14-Ja03581	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S14-Ja03581	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S14-Ja03581	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S14-Ja03581	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S14-Ja03598	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S14-Ja03598	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S14-Ja03598	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S14-Ja03581	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S14-Ja03581	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S14-Ja03581	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S14-Ja03581	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S14-Ja03581	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S14-Ja03581	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S14-Ja03581	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S14-Ja03581	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S14-Ja03581	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S14-Ja03581	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S14-Ja03581	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S14-Ja03581	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja03581	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S14-Ja03581	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S14-Ja03581	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S14-Ja03581	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S14-Ja03510	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S14-Ja03510	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S14-Ja03510	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S14-Ja03510	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	S14-Ja03510	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S14-Ja03510	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	S14-Ja03510	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	

Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
d-BHC	S14-Ja03510	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S14-Ja03510	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S14-Ja03510	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S14-Ja03510	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S14-Ja03510	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S14-Ja03510	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S14-Ja03510	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S14-Ja03510	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	S14-Ja03510	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S14-Ja03510	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S14-Ja03510	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S14-Ja03510	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S14-Ja03510	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Toxaphene	S14-Ja03510	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls (PCB)				Result 1	Result 2	RPD			
Aroclor-1016	S14-Ja03510	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1232	S14-Ja03510	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1242	S14-Ja03510	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1248	S14-Ja03510	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1254	S14-Ja03510	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1260	S14-Ja03510	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S14-Ja03581	NCP	mg/kg	5.3	9.1	52	30%	Fail	Q15
Cadmium	S14-Ja03581	NCP	mg/kg	0.90	0.50	64	30%	Fail	Q15
Chromium	S14-Ja03581	NCP	mg/kg	7.9	8.3	5.0	30%	Pass	
Copper	S14-Ja03581	NCP	mg/kg	100	95	9.0	30%	Pass	
Lead	S14-Ja03581	NCP	mg/kg	88	86	2.0	30%	Pass	
Mercury	S14-Ja03581	NCP	mg/kg	0.050	< 0.05	40	30%	Fail	Q15
Nickel	S14-Ja03581	NCP	mg/kg	8.4	7.8	8.0	30%	Pass	
Zinc	S14-Ja03581	NCP	mg/kg	490	800	48	30%	Fail	Q15
Duplicate									
				Result 1	Result 2	RPD			
Conductivity (1:5 aqueous extract at 25°C)	S14-Ja03516	CP	uS/cm	63	63	<1	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q15	The RPD reported passes Eurofins | mgt's Acceptance Criteria as stipulated in SOP 05. Refer to Glossary Page of this report for further details

Authorised By

Jean Heng	Client Services
Bob Symons	Senior Analyst-Inorganic (NSW)
James Norford	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)
Ryan Hamilton	Senior Analyst-Volatile (NSW)

Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

Eurofins | mgt shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins | mgt be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

eurofins | mgt
Unit F3-F6 Building F, Parkview Building
16 Mars Road, Lane Cove West
NSW 2066

CHAIN OF CUSTODY

405424

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square Block 8A
SEND REPORT TO: N Cowan SEND INVOICE TO: G Ng
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: [redacted] Chris O
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: nowane@jbsg.com.au
QC LEVEL: NEPM (2013)

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	JB1	JB1T	JB1A	JB2	JB2A	B10	JB2/JBL	JB3/JBL	JB4	JBL	pH	EA	NOTES:
FC075 0.2-0.3	Soil	9/1/14		Jar + ICE					X							1	1	
FC075 0.6-0.8																		
FC075 0.8-1.0																		
FC075 2.7-2.9									X							1	1	
FC075 4.5-4.7																		
FC076 0.4-0.6																		
FC076 1.0-1.2																		
FC076 1.8-2.0									X							1	1	
FC076 3.8-4.0																		

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Nathan DATE: 10/1/14	CONSIGNMENT NOTE NO.	NAME: Ethan WG DATE: 130914	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	OF: ESMgt 1700	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

JB1 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1T - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos
JB2 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
B10 - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2/JBL - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)
JB3/JBL - TRH/BTEX/PAH/OCP/OPP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)/Asbestos
JB4 - TRH/BTEX/VOC
JBL - TCLP(PAH & 6 Metals)

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

SAMPLE RECEIPT ADVICE

Client:

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney NSW 2000

ph: 02 8245 0300
Fax: 02 8245 0399

Attention: Joanne Rosner, Nathan Cussen

Sample log in details:

Your reference:	**43182, Green Square Block 8A**
Envirolab Reference:	**103454**
Date received:	14/01/14
Date results expected to be reported:	**21/01/14**

Samples received in appropriate condition for analysis:	YES
No. of samples provided	9 soils
Turnaround time requested:	Standard
Temperature on receipt (°C)	NA
Cooling Method:	None
Sampling Date Provided:	YES

Comments:

Samples will be held for 1 month for water samples and 2 months for soil samples from date of receipt of samples.

Contact details:

Please direct any queries to Aileen Hie or Jacinta Hurst
ph: 02 9910 6200 fax: 02 9910 6201
email: ahie@envirolabservices.com.au or jhurst@envirolabservices.com.au

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

CERTIFICATE OF ANALYSIS 103454

Client:
JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention: Joanne Rosner, Nathan Cussen

Sample log in details:

Your Reference:	**43182, Green Square Block 8A**		
No. of samples:	9 soils		
Date samples received / completed instructions received	14/01/14	/	14/01/14

Analysis Details:
Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by: / Issue Date:	21/01/14	/	17/01/14
Date of Preliminary Report:	Not Issued		

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Accredited for compliance with ISO/IEC 17025. **Tests not covered by NATA are denoted with *.**

Results Approved By:

Jacinta Hurst
Laboratory Manager

Asbestos ID - soils WA				
Our Reference:	UNITS	103454-1	103454-2	103454-7
Your Reference	----------	FC075	FC075	FC076
Depth	----------	0.2-0.3	0.6-0.8	1.0-1.2
Date Sampled		08/01/2014	08/01/2014	08/01/2014
Type of sample		soil	soil	soil
Date analysed	-	16/01/2014	16/01/2014	16/01/2014
Sample mass tested	g	627.04g	655.96g	760.07g
Sample Description	-	Grey coarse-grained & rocks	Pink fine-grained soil & rocks	Grey coarse-grained & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected

Method ID	Methodology Summary
ASB-003	Asbestos ID - Minimum 500mL soil sample was analysed as recommended by "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.1g/kg as per AS4964-2004.

Report Comments:

This report is consistent with the analytical procedures and reporting recommendations in the Western Australian Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009.

Sample 103454-1; Loose fibre bundles of chrysotile asbestos identified within the sample (total weight 0.0026g). This is 100% asbestos fibres by weight, which in 627.04g of soil is 0.00g/kg (i.e. < reporting limit for the method of 0.1g/kg).

Asbestos ID was analysed by Approved Identifier:	Paul Ching
Asbestos ID was authorised by Approved Signatory:	Paul Ching

INS: Insufficient sample for this test	PQL: Practical Quantitation Limit	NT: Not tested
NA: Test not required	RPD: Relative Percent Difference	NA: Test not required
<: Less than	>: Greater than	LCS: Laboratory Control Sample

Quality Control Definitions

Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

Duplicate: This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

Matrix Spike : A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

LCS (Laboratory Control Sample) : This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Surrogate Spike: Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.
Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.
Spikes for Physical and Aggregate Tests are not applicable.
For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.
Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for SVOC and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

12 Ashley Street
Chatswood
NSW 2067

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 43192
PROJECT NAME: Green Square Block 8A
SEND REPORT TO: N Cussen SEND INVOICE TO: E NJ
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: Chris B
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: ncussen@jbsg.com.a
QC LEVEL: NEPM (2013)

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	COMBO SUITES: SOIL-4	SOIL-4L	SOIL-4A	SOIL-5	SOIL 5A	SOIL 5B	SOIL-12	WATER-1m	WATER-2L	WATER-3L	Asbestos (24h)	NOTES:
1	FC075 0.2-0.3	Soil	8/1/14		Bag												X	
2	FC075 0.6-0.8																X	
3	FC075 0.8-1.0																	
4	FC075 2.7-2.9																	
5	FC075 4.5-4.7																X	
6	FC076 0.4-0.6																	
7	FC076 1.0-1.2																	
8	FC076 1.8-2.0																	
9	FC076 3.8-4.0																	

ENVIROLAB GROUP
Envirolab Service
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200
Job No: 10345Y
Date Received: 14.1.14
Time Received: 9:00
Received by: D.F
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

RELINQUISHED BY:
NAME: Nathan DATE: 14/1/14
OF: JBS&G
NAME: DATE:
OF:

METHOD OF SHIPMENT:
CONSIGNMENT NOTE NO.
TRANSPORT CO.
CONSIGNMENT NOTE NO.
TRANSPORT CO

RECEIVED BY:
NAME: Daniel Ford
DATE: 14.1.14
OF: EJS
NAME: DATE:
OF:

FOR RECEIVING LAB USE ONLY:
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Envirolab

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

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Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: ADDITIONAL: GREEN SQUARE 43182

Order No.:
Report #: 404625
Phone: 02 8245 0300
Fax:

Received: Dec 24, 2013 9:10 AM
Due: Jan 6, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Polycyclic Aromatic Hydrocarbons	Toxicity Characteristic Leaching Procedure (TCLP)	Metals M8
Laboratory where analysis is conducted								
Melbourne Laboratory - NATA Site # 1254 & 14271					X	X	X	X
Sydney Laboratory - NATA Site # 18217								
Brisbane Laboratory - NATA Site # 20794								
External Laboratory								
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**				
FC053 0-0.1	Dec 16, 2013		TCLP	M13-De22102	X		X	X
FC053 2-2.1	Dec 16, 2013		TCLP	M13-De22103	X	X	X	
FC055 0-0.1	Dec 16, 2013		TCLP	M13-De22104	X		X	X
FC055 1.0	Dec 16, 2013		TCLP	M13-De22105	X	X	X	X
FC055 4-4.0	Dec 16, 2013		TCLP	M13-De22106	X	X	X	X
QC01	Dec 16, 2013		TCLP	M13-De22107	X	X	X	

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NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Sample Receipt Advice

Company name: **JBS & G (NSW & WA) Pty Ltd**

Contact name: Nathan Cussen
Client job number: ADDITIONAL: GREEN SQUARE 43182
COC number: Not provided
Turn around time: 5 Day
Date/Time received: Dec 24, 2013 9:10 AM
Eurofins | mgt reference: **404625**

Sample information

☑ A detailed list of analytes logged into our LIMS, is included in the attached summary table.

☑ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt Sample Receipt : 16.5 degrees Celsius.

☑ All samples have been received as described on the above COC.

☑ COC has been completed correctly.

☑ Attempt to chill was evident.

☑ Appropriately preserved sample containers have been used.

☑ All samples were received in good condition.

☑ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.

☑ Organic samples had Teflon liners.

☒ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Notes

Additional from 403832 | Analysis conducted by Eurofins | mgt Melbourne

Contact notes

If you have any questions with respect to these samples please contact:

Jean Heng on Phone : (+61) (2) 9900 8400 or by e.mail: JeanHeng@eurofins.com.au

Results will be delivered electronically via e.mail to Nathan Cussen - ncussen@jbsg.com.au.

Eurofins | mgt Sample Receipt

eurofins | mgt

Certificate of Analysis

NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention: **Nathan Cussen**

Report **404625-L**
Client Reference ADDITIONAL: GREEN SQUARE 43182
Received Date Dec 24, 2013

Client Sample ID **Sample Matrix** **Eurofins | mgt Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**FC053 0-0.1** **TCLP** **M13-De22102** **Dec 16, 2013**	**FC053 2-2.1** **TCLP** **M13-De22103** **Dec 16, 2013**	**FC055 0-0.1** **TCLP** **M13-De22104** **Dec 16, 2013**	**FC055 1.0** **TCLP** **M13-De22105** **Dec 16, 2013**
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.001	mg/L	-	< 0.001	-	< 0.001
Acenaphthylene	0.001	mg/L	-	< 0.001	-	0.007
Anthracene	0.001	mg/L	-	< 0.001	-	0.006
Benz(a)anthracene	0.001	mg/L	-	< 0.001	-	0.052
Benzo(a)pyrene	0.001	mg/L	-	< 0.001	-	0.049
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	-	< 0.001	-	0.044
Benzo(g.h.i)perylene	0.001	mg/L	-	< 0.001	-	0.033
Benzo(k)fluoranthene	0.001	mg/L	-	< 0.001	-	0.038
Chrysene	0.001	mg/L	-	< 0.001	-	0.044
Dibenz(a.h)anthracene	0.001	mg/L	-	< 0.001	-	0.014
Fluoranthene	0.001	mg/L	-	< 0.001	-	0.056
Fluorene	0.001	mg/L	-	< 0.001	-	< 0.001
Indeno(1.2.3-cd)pyrene	0.001	mg/L	-	< 0.001	-	0.031
Naphthalene	0.001	mg/L	-	0.001	-	0.005
Phenanthrene	0.001	mg/L	-	< 0.001	-	0.006
Pyrene	0.001	mg/L	-	< 0.001	-	0.087
Total PAH	0.001	mg/L	-	0.001	-	0.47
2-Fluorobiphenyl (surr.)	1	%	-	101	-	129
p-Terphenyl-d14 (surr.)	1	%	-	96	-	121
Heavy Metals						
Arsenic	0.01	mg/L	< 0.01	-	< 0.01	< 0.01
Cadmium	0.005	mg/L	< 0.005	-	< 0.005	0.007
Chromium	0.01	mg/L	< 0.01	-	< 0.01	< 0.01
Copper	0.01	mg/L	0.01	-	< 0.01	< 0.01
Lead	0.01	mg/L	0.07	-	0.45	0.18
Mercury	0.001	mg/L	< 0.001	-	< 0.001	0.012
Nickel	0.01	mg/L	0.02	-	< 0.01	< 0.01
Zinc	0.01	mg/L	0.66	-	1.6	0.53
Toxicity Characteristic Leaching Procedure (TCLP)						
Leachate Fluid[C01]		comment	1.0	1.0	1.0	1.0
pH (TCLP - HCl addition)	0.1	units	1.7	1.7	1.6	1.6
pH (TCLP - initial)	0.1	units	8.7	8.9	8.8	8.9
pH (TCLP - off)	0.1	units	5.4	5.7	6.6	6.9

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC055 4-4.0 TCLP M13-De22106 Dec 16, 2013	QC01 TCLP M13-De22107 Dec 16, 2013
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	0.001	mg/L	< 0.001	< 0.001
Acenaphthylene	0.001	mg/L	< 0.001	< 0.001
Anthracene	0.001	mg/L	< 0.001	< 0.001
Benz(a)anthracene	0.001	mg/L	0.001	< 0.001
Benzo(a)pyrene	0.001	mg/L	0.001	< 0.001
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	0.001	< 0.001
Benzo(g.h.i)perylene	0.001	mg/L	0.001	< 0.001
Benzo(k)fluoranthene	0.001	mg/L	0.001	< 0.001
Chrysene	0.001	mg/L	0.002	< 0.001
Dibenz(a.h)anthracene	0.001	mg/L	< 0.001	< 0.001
Fluoranthene	0.001	mg/L	0.002	0.001
Fluorene	0.001	mg/L	< 0.001	< 0.001
Indeno(1.2.3-cd)pyrene	0.001	mg/L	0.001	< 0.001
Naphthalene	0.001	mg/L	< 0.001	0.004
Phenanthrene	0.001	mg/L	< 0.001	< 0.001
Pyrene	0.001	mg/L	0.003	0.001
Total PAH	0.001	mg/L	0.013	0.006
2-Fluorobiphenyl (surr.)	1	%	86	97
p-Terphenyl-d14 (surr.)	1	%	75	92
Heavy Metals				
Arsenic	0.01	mg/L	< 0.01	-
Cadmium	0.005	mg/L	< 0.005	-
Chromium	0.01	mg/L	< 0.01	-
Copper	0.01	mg/L	0.43	-
Lead	0.01	mg/L	0.48	-
Mercury	0.001	mg/L	< 0.001	-
Nickel	0.01	mg/L	0.16	-
Zinc	0.01	mg/L	3.8	-
Toxicity Characteristic Leaching Procedure (TCLP)				
Leachate Fluid[C01]		comment	1.0	1.0
pH (TCLP - HCl addition)	0.1	units	1.7	1.7
pH (TCLP - initial)	0.1	units	8.7	8.8
pH (TCLP - off)	0.1	units	6.9	6.8

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Polycyclic Aromatic Hydrocarbons	Melbourne	Jan 06, 2014	7 Day
- Method: USEPA 8270 Polycyclic Aromatic Hydrocarbons			
Metals M8	Melbourne	Jan 06, 2014	28 Day
- Method: USEPA 6010/6020 Heavy Metals & USEPA 7470/71 Mercury			
Toxicity Characteristic Leaching Procedure (TCLP)	Sydney	Jan 06, 2014	0 Day
- Method: E019 TCLP Preparation			

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Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: ADDITIONAL: GREEN SQUARE 43182

Order No.:
Report #: 404625
Phone: 02 8245 0300
Fax:

Received: Dec 24, 2013 9:10 AM
Due: Jan 6, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Polycyclic Aromatic Hydrocarbons	Toxicity Characteristic Leaching Procedure (TCLP)	Metals M8
Laboratory where analysis is conducted								
Melbourne Laboratory - NATA Site # 1254 & 14271					X	X	X	X
Sydney Laboratory - NATA Site # 18217								
Brisbane Laboratory - NATA Site # 20794								
External Laboratory								
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**				
FC053 0-0.1	Dec 16, 2013		TCLP	M13-De22102	X		X	X
FC053 2-2.1	Dec 16, 2013		TCLP	M13-De22103	X	X	X	
FC055 0-0.1	Dec 16, 2013		TCLP	M13-De22104	X		X	X
FC055 1.0	Dec 16, 2013		TCLP	M13-De22105	X	X	X	X
FC055 4-4.0	Dec 16, 2013		TCLP	M13-De22106	X	X	X	X
QC01	Dec 16, 2013		TCLP	M13-De22107	X	X	X	

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/L	< 0.001			0.001	Pass	
Acenaphthylene	mg/L	< 0.001			0.001	Pass	
Anthracene	mg/L	< 0.001			0.001	Pass	
Benz(a)anthracene	mg/L	< 0.001			0.001	Pass	
Benzo(a)pyrene	mg/L	< 0.001			0.001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.001			0.001	Pass	
Benzo(g.h.i)perylene	mg/L	< 0.001			0.001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.001			0.001	Pass	
Chrysene	mg/L	< 0.001			0.001	Pass	
Dibenz(a.h)anthracene	mg/L	< 0.001			0.001	Pass	
Fluoranthene	mg/L	< 0.001			0.001	Pass	
Fluorene	mg/L	< 0.001			0.001	Pass	
Indeno(1.2.3-cd)pyrene	mg/L	< 0.001			0.001	Pass	
Naphthalene	mg/L	< 0.001			0.001	Pass	
Phenanthrene	mg/L	< 0.001			0.001	Pass	
Pyrene	mg/L	< 0.001			0.001	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.01			0.01	Pass	
Cadmium	mg/L	< 0.005			0.005	Pass	
Chromium	mg/L	< 0.01			0.01	Pass	
Copper	mg/L	< 0.01			0.01	Pass	
Lead	mg/L	< 0.01			0.01	Pass	
Mercury	mg/L	< 0.001			0.001	Pass	
Nickel	mg/L	< 0.01			0.01	Pass	
Zinc	mg/L	< 0.01			0.01	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M13-De22108	NCP	%	86			75-125	Pass	
Cadmium	M13-De22108	NCP	%	84			75-125	Pass	
Chromium	M13-De22108	NCP	%	86			75-125	Pass	
Copper	M13-De22108	NCP	%	89			75-125	Pass	
Lead	M13-De22108	NCP	%	85			75-125	Pass	
Nickel	M13-De22108	NCP	%	86			75-125	Pass	
Zinc	M13-De22108	NCP	%	107			75-125	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Mercury	M13-De22105	CP	%	113			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M13-De22108	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Cadmium	M13-De22108	NCP	mg/L	0.0090	0.0077	16	30%	Pass	
Chromium	M13-De22108	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Copper	M13-De22108	NCP	mg/L	0.030	0.020	41	30%	Fail	Q15
Lead	M13-De22108	NCP	mg/L	0.16	0.15	2.1	30%	Pass	
Nickel	M13-De22108	NCP	mg/L	0.030	0.028	4.9	30%	Pass	
Zinc	M13-De22108	NCP	mg/L	1.3	1.3	1.4	30%	Pass	

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Mercury	M13-De22105	CP	mg/L	0.012	0.013	4.0	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
C01	Leachate Fluid Key: 1 - pH 5.0, 2 - pH 2.9, 3 - pH 9.2, 4 - Reagent (DI) water, 5 - Client sample, 6 - other
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q15	The RPD reported passes Eurofins | mgt's Acceptance Criteria as stipulated in SOP 05. Refer to Glossary Page of this report for further details

Authorised By

Jean Heng	Client Services
Emily Rosenberg	Senior Analyst-Metal (VIC)
Stacey Jenkins	Senior Analyst-Organic (VIC)

Glenn Jackson
Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

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From: Nathan Cussen [mailto:NCussen@jbsg.com.au]
Sent: Tuesday, 24 December 2013 9:10 AM
To: Jean Heng
Subject: ADDITIONAL ANALYSIS

Hi Jean,

Cold I please schedule the following addition TCLP analysis:

Lab Batch 403832

FC053 0-0.1	TLCP Metals
FC053 2-2.1	TCLP PAH
FC055 0-0.1	TCLP Metals
FC055 1.0	TCLP PAH & Metals
FC055 4-4.0	TCLP PAH & Metals
QC01	TCLP PAH

#404625.

Lab Batch 403941

FC059 0.5	TCLP PAH & Metals
FC059 1.0	TCLP PAH & Metals
FC060 2.0-2.1	TCLP PAH & Metals
FC060 3.0	TCLP PAH & Metals
FC061 1.0	TCLP PAH & Metals
FC061 3.0-3.1	TCLP PAH & Metals
FC058 0.5	TCLP PAH
FC058 5-5.1	TCLP Metals
FC057 0-0.1	TCLP PAH
QC02	TCLP Metal

#404576

Thanks for your help and have a great xmas/new year break.

Regards,
Nathan

Nathan Cussen | Senior Environmental Consultant| JBS&G
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Contaminated Land | Groundwater Remediation | Auditing and Compliance | Assessments and Approvals | Occupational Hygiene and Monitoring

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Melbourne
3-5 Kingston Town Close
Oakleigh VIC 3166
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F6, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: ADDITIONAL: GREEN SQUARE 43182

Order No.:
Report #: 404576
Phone: 02 8245 0300
Fax:

Received: Dec 24, 2013 9:10 AM
Due: Jan 6, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Polycyclic Aromatic Hydrocarbons	Toxicity Characteristic Leaching Procedure (TCLP)	Toxicity Characteristic Leaching Procedure (TCLP)	Metals M8
Laboratory where analysis is conducted									
Melbourne Laboratory - NATA Site # 1254 & 14271					X	X	X		X
Sydney Laboratory - NATA Site # 18217								X	
Brisbane Laboratory - NATA Site # 20794									
External Laboratory									
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**					
FC059 0.5	Dec 17, 2013		TCLP	M13-De22108	X	X		X	X
FC059 1.0	Dec 17, 2013		TCLP	M13-De22109	X	X		X	X
FC060 2.0-2.1	Dec 17, 2013		TCLP	M13-De22110	X	X		X	X
FC060 3.0	Dec 17, 2013		TCLP	M13-De22111	X	X		X	X
FC061 1.0	Dec 17, 2013		TCLP	M13-De22112	X	X		X	X
FC061 3.0-3.1	Dec 17, 2013		TCLP	M13-De22113	X	X		X	X
FC058 0.5	Dec 17, 2013		TCLP	M13-De22114	X	X		X	
FC058 5-5.1	Dec 17, 2013		TCLP	M13-De22115	X		X		X
FC057 0-0.1	Dec 17, 2013		TCLP	M13-De22116	X	X		X	
QC02	Dec 17, 2013		TCLP	M13-De22117	X			X	X

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NATA # 1261 Site # 20794

Sample Receipt Advice

Company name: **JBS & G (NSW & WA) Pty Ltd**

Contact name: Nathan Cussen
Client job number: ADDITIONAL: GREEN SQUARE 43182
COC number: Not provided
Turn around time: 5 Day
Date/Time received: Dec 24, 2013 9:10 AM
Eurofins | mgt reference: **404576**

Sample information

☑ A detailed list of analytes logged into our LIMS, is included in the attached summary table.

☑ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt Sample Receipt : 16.5 degrees Celsius.

☑ All samples have been received as described on the above COC.

☑ COC has been completed correctly.

☑ Attempt to chill was evident.

☑ Appropriately preserved sample containers have been used.

☑ All samples were received in good condition.

☑ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.

☑ Organic samples had Teflon liners.

☒ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Notes

Additional from 403941 | Analysis conducted by Eurofins | mgt Melbourne

Contact notes

If you have any questions with respect to these samples please contact:

Jean Heng on Phone : (+61) (2) 9900 8400 or by e.mail: JeanHeng@eurofins.com.au

Results will be delivered electronically via e.mail to Nathan Cussen - ncussen@jbsg.com.au.

Eurofins | mgt Sample Receipt

eurofins | mgt

Certificate of Analysis

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Nathan Cussen**

Report **404576-L**
Client Reference ADDITIONAL: GREEN SQUARE 43182
Received Date Dec 24, 2013

Client Sample ID **Sample Matrix** **Eurofins | mgt Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**FC059 0.5** **TCLP** **M13-De22108** **Dec 17, 2013**	**FC059 1.0** **TCLP** **M13-De22109** **Dec 17, 2013**	**FC060 2.0-2.1** **TCLP** **M13-De22110** **Dec 17, 2013**	**FC060 3.0** **TCLP** **M13-De22111** **Dec 17, 2013**
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.001	mg/L	< 0.001	0.001	0.002	0.004
Acenaphthylene	0.001	mg/L	< 0.001	< 0.001	0.001	< 0.001
Anthracene	0.001	mg/L	< 0.001	0.002	< 0.001	0.001
Benz(a)anthracene	0.001	mg/L	< 0.001	0.008	0.001	0.001
Benzo(a)pyrene	0.001	mg/L	< 0.001	0.007	0.002	0.002
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	< 0.001	0.006	0.002	0.002
Benzo(g.h.i)perylene	0.001	mg/L	< 0.001	0.004	0.002	0.002
Benzo(k)fluoranthene	0.001	mg/L	< 0.001	0.009	0.001	0.001
Chrysene	0.001	mg/L	< 0.001	0.009	0.002	0.002
Dibenz(a.h)anthracene	0.001	mg/L	< 0.001	0.001	< 0.001	< 0.001
Fluoranthene	0.001	mg/L	< 0.001	0.015	0.002	0.001
Fluorene	0.001	mg/L	< 0.001	< 0.001	0.001	0.002
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001	0.003	0.001	0.001
Naphthalene	0.001	mg/L	< 0.001	0.008	0.006	0.004
Phenanthrene	0.001	mg/L	< 0.001	0.004	0.001	0.002
Pyrene	0.001	mg/L	< 0.001	0.018	0.003	0.002
Total PAH	0.001	mg/L	< 0.001	0.095	0.027	0.027
2-Fluorobiphenyl (surr.)	1	%	82	98	101	98
p-Terphenyl-d14 (surr.)	1	%	83	101	103	101
Heavy Metals						
Arsenic	0.01	mg/L	< 0.01	0.02	< 0.01	< 0.01
Cadmium	0.005	mg/L	0.009	0.009	0.006	0.009
Chromium	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
Copper	0.01	mg/L	0.03	0.27	0.07	0.12
Lead	0.01	mg/L	0.16	0.61	0.25	0.36
Mercury	0.001	mg/L	0.004	< 0.001	0.011	0.005
Nickel	0.01	mg/L	0.03	0.09	0.02	0.02
Zinc	0.01	mg/L	1.3	8.4	2.0	1.3
Toxicity Characteristic Leaching Procedure (TCLP)						
Leachate Fluid[C01]		comment	1.0	1.0	1.0	1.0
pH (TCLP - HCl addition)	0.1	units	1.7	1.8	1.7	1.7
pH (TCLP - initial)	0.1	units	8.9	8.7	8.7	8.8
pH (TCLP - off)	0.1	units	7.0	6.6	7.0	7.0

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC061 1.0 TCLP M13-De22112 Dec 17, 2013	FC061 3.0-3.1 TCLP M13-De22113 Dec 17, 2013	FC058 0.5 TCLP M13-De22114 Dec 17, 2013	FC058 5-5.1 TCLP M13-De22115 Dec 17, 2013
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.001	mg/L	< 0.001	0.002	< 0.001	-
Acenaphthylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Anthracene	0.001	mg/L	< 0.001	0.002	< 0.001	-
Benz(a)anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Benzo(a)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Benzo(g.h.i)perylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Benzo(k)fluoranthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Chrysene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Dibenz(a.h)anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Fluoranthene	0.001	mg/L	< 0.001	0.001	< 0.001	-
Fluorene	0.001	mg/L	< 0.001	0.001	< 0.001	-
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Naphthalene	0.001	mg/L	< 0.001	0.002	< 0.001	-
Phenanthrene	0.001	mg/L	< 0.001	0.003	< 0.001	-
Pyrene	0.001	mg/L	< 0.001	0.001	< 0.001	-
Total PAH	0.001	mg/L	< 0.001	0.012	< 0.001	-
2-Fluorobiphenyl (surr.)	1	%	114	90	127	-
p-Terphenyl-d14 (surr.)	1	%	114	84	135	-
Heavy Metals						
Arsenic	0.01	mg/L	0.01	< 0.01	-	< 0.01
Cadmium	0.005	mg/L	0.007	0.013	-	0.009
Chromium	0.01	mg/L	0.02	< 0.01	-	0.01
Copper	0.01	mg/L	0.02	< 0.01	-	0.05
Lead	0.01	mg/L	0.75	0.03	-	0.17
Mercury	0.001	mg/L	0.007	0.003	-	< 0.001
Nickel	0.01	mg/L	0.04	< 0.01	-	0.04
Zinc	0.01	mg/L	2.2	0.35	-	2.3
Toxicity Characteristic Leaching Procedure (TCLP)						
Leachate Fluid[C01]		comment	1.0	1.0	1.0	1.0
pH (TCLP - HCl addition)	0.1	units	1.7	1.8	1.7	1.7
pH (TCLP - initial)	0.1	units	8.8	9.1	8.6	8.5
pH (TCLP - off)	0.1	units	6.5	7.0	5.6	5.5

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC057 0-0.1 TCLP M13-De22116 Dec 17, 2013	QC02 TCLP M13-De22117 Dec 17, 2013
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	0.001	mg/L	0.002	-
Acenaphthylene	0.001	mg/L	0.001	-
Anthracene	0.001	mg/L	< 0.001	-
Benz(a)anthracene	0.001	mg/L	< 0.001	-
Benzo(a)pyrene	0.001	mg/L	< 0.001	-
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	< 0.001	-
Benzo(g.h.i)perylene	0.001	mg/L	0.001	-
Benzo(k)fluoranthene	0.001	mg/L	< 0.001	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC057 0-0.1 TCLP M13-De22116 Dec 17, 2013	QC02 TCLP M13-De22117 Dec 17, 2013
Polycyclic Aromatic Hydrocarbons				
Chrysene	0.001	mg/L	< 0.001	-
Dibenz(a.h)anthracene	0.001	mg/L	< 0.001	-
Fluoranthene	0.001	mg/L	0.002	-
Fluorene	0.001	mg/L	0.001	-
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001	-
Naphthalene	0.001	mg/L	0.002	-
Phenanthrene	0.001	mg/L	0.002	-
Pyrene	0.001	mg/L	0.002	-
Total PAH	0.001	mg/L	0.013	-
2-Fluorobiphenyl (surr.)	1	%	84	-
p-Terphenyl-d14 (surr.)	1	%	93	-
Heavy Metals				
Arsenic	0.01	mg/L	-	< 0.01
Cadmium	0.005	mg/L	-	< 0.005
Chromium	0.01	mg/L	-	< 0.01
Copper	0.01	mg/L	-	0.05
Lead	0.01	mg/L	-	0.38
Mercury	0.001	mg/L	-	< 0.001
Nickel	0.01	mg/L	-	0.04
Zinc	0.01	mg/L	-	2.6
Toxicity Characteristic Leaching Procedure (TCLP)				
Leachate Fluid[C01]		comment	1.0	1.0
pH (TCLP - HCl addition)	0.1	units	1.7	1.7
pH (TCLP - initial)	0.1	units	9.0	8.6
pH (TCLP - off)	0.1	units	5.7	5.5

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Polycyclic Aromatic Hydrocarbons	Melbourne	Jan 06, 2014	7 Day
- Method: USEPA 8270 Polycyclic Aromatic Hydrocarbons			
Metals M8	Melbourne	Jan 06, 2014	28 Day
- Method: USEPA 6010/6020 Heavy Metals & USEPA 7470/71 Mercury			
Toxicity Characteristic Leaching Procedure (TCLP)	Sydney	Jan 13, 2014	0 Day
- Method: E019 TCLP Preparation			

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Sample Detail					% Moisture	Polycyclic Aromatic Hydrocarbons	Toxicity Characteristic Leaching Procedure (TCLP)	Toxicity Characteristic Leaching Procedure (TCLP)	Metals M8
Laboratory where analysis is conducted									
Melbourne Laboratory - NATA Site # 1254 & 14271					X	X	X		X
Sydney Laboratory - NATA Site # 18217								X	
Brisbane Laboratory - NATA Site # 20794									
External Laboratory									
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**					
FC059 0.5	Dec 17, 2013		TCLP	M13-De22108	X	X		X	X
FC059 1.0	Dec 17, 2013		TCLP	M13-De22109	X	X		X	X
FC060 2.0-2.1	Dec 17, 2013		TCLP	M13-De22110	X	X		X	X
FC060 3.0	Dec 17, 2013		TCLP	M13-De22111	X	X		X	X
FC061 1.0	Dec 17, 2013		TCLP	M13-De22112	X	X		X	X
FC061 3.0-3.1	Dec 17, 2013		TCLP	M13-De22113	X	X		X	X
FC058 0.5	Dec 17, 2013		TCLP	M13-De22114	X	X		X	
FC058 5-5.1	Dec 17, 2013		TCLP	M13-De22115	X		X		X
FC057 0-0.1	Dec 17, 2013		TCLP	M13-De22116	X	X		X	
QC02	Dec 17, 2013		TCLP	M13-De22117	X			X	X

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/L	< 0.001			0.001	Pass	
Acenaphthylene	mg/L	< 0.001			0.001	Pass	
Anthracene	mg/L	< 0.001			0.001	Pass	
Benz(a)anthracene	mg/L	< 0.001			0.001	Pass	
Benzo(a)pyrene	mg/L	< 0.001			0.001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.001			0.001	Pass	
Benzo(g.h.i)perylene	mg/L	< 0.001			0.001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.001			0.001	Pass	
Chrysene	mg/L	< 0.001			0.001	Pass	
Dibenz(a.h)anthracene	mg/L	< 0.001			0.001	Pass	
Fluoranthene	mg/L	< 0.001			0.001	Pass	
Fluorene	mg/L	< 0.001			0.001	Pass	
Indeno(1.2.3-cd)pyrene	mg/L	< 0.001			0.001	Pass	
Naphthalene	mg/L	< 0.001			0.001	Pass	
Phenanthrene	mg/L	< 0.001			0.001	Pass	
Pyrene	mg/L	< 0.001			0.001	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.01			0.01	Pass	
Cadmium	mg/L	< 0.005			0.005	Pass	
Chromium	mg/L	< 0.01			0.01	Pass	
Copper	mg/L	< 0.01			0.01	Pass	
Lead	mg/L	< 0.01			0.01	Pass	
Mercury	mg/L	< 0.001			0.001	Pass	
Nickel	mg/L	< 0.01			0.01	Pass	
Zinc	mg/L	< 0.01			0.01	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M13-De22108	CP	%	86			75-125	Pass	
Cadmium	M13-De22108	CP	%	84			75-125	Pass	
Chromium	M13-De22108	CP	%	86			75-125	Pass	
Copper	M13-De22108	CP	%	89			75-125	Pass	
Lead	M13-De22108	CP	%	85			75-125	Pass	
Mercury	M13-De22105	NCP	%	113			70-130	Pass	
Nickel	M13-De22108	CP	%	86			75-125	Pass	
Zinc	M13-De22108	CP	%	107			75-125	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M13-De22108	CP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Cadmium	M13-De22108	CP	mg/L	0.009	0.008	16	30%	Pass	
Chromium	M13-De22108	CP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Copper	M13-De22108	CP	mg/L	0.03	0.02	41	30%	Fail	Q15
Lead	M13-De22108	CP	mg/L	0.16	0.15	2.1	30%	Pass	
Mercury	M13-De22108	CP	mg/L	0.004	0.003	7.0	30%	Pass	
Nickel	M13-De22108	CP	mg/L	0.03	0.03	4.9	30%	Pass	
Zinc	M13-De22108	CP	mg/L	1.3	1.3	1.4	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
C01	Leachate Fluid Key: 1 - pH 5.0, 2 - pH 2.9, 3 - pH 9.2, 4 - Reagent (DI) water, 5 - Client sample, 6 - other
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q15	The RPD reported passes Eurofins | mgt's Acceptance Criteria as stipulated in SOP 05. Refer to Glossary Page of this report for further details

Authorised By

Jean Heng	Client Services
Emily Rosenberg	Senior Analyst-Metal (VIC)
Stacey Jenkins	Senior Analyst-Organic (VIC)

Glenn Jackson

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

Eurofins | mgt shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins | mgt be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

From: Nathan Cussen [mailto:NCussen@jbsg.com.au]
Sent: Tuesday, 24 December 2013 9:10 AM
To: Jean Heng
Subject: ADDITIONAL ANALYSIS

Hi Jean,

Cold I please schedule the following addition TCLP analysis:

Lab Batch 403832

FC053 0-0.1	TLCP Metals
FC053 2-2.1	TCLP PAH
FC055 0-0.1	TCLP Metals
FC055 1.0	TCLP PAH & Metals
FC055 4-4.0	TCLP PAH & Metals
QC01	TCLP PAH

Lab Batch 403941

FC059 0.5	TCLP PAH & Metals
FC059 1.0	TCLP PAH & Metals
FC060 2.0-2.1	TCLP PAH & Metals
FC060 3.0	TCLP PAH & Metals
FC061 1.0	TCLP PAH & Metals
FC061 3.0-3.1	TCLP PAH & Metals
FC058 0.5	TCLP PAH
FC058 5-5.1	TCLP Metals
FC057 0-0.1	TCLP PAH
QC02	TCLP Metal

Thanks for your help and have a great xmas/new year break.

Regards,
Nathan

Nathan Cussen | Senior Environmental Consultant| JBS&G
Sydney | Melbourne | Adelaide | Perth | Brisbane
Level 1, 50 Margaret Street, Sydney NSW 2000
T: 02 8245 0300 | M: 0431 401 022| www.jbsg.com.au
Contaminated Land | Groundwater Remediation | Auditing and Compliance | Assessments and Approvals | Occupational Hygiene and Monitoring

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Brisbane
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Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: GREEN SQUARE 43182

Order No.:
Report #: 403941
Phone: 02 8245 0300
Fax:

Received: Dec 17, 2013 5:35 PM
Due: Dec 30, 2013
Priority: 5 Day
Contact Name: Joanne Rosner

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Total Recoverable Hydrocarbons	JBS&G Suite 2
Laboratory where analysis is conducted													
Melbourne Laboratory - NATA Site # 1254 & 14271													
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794													
External Laboratory													
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**									
FC059-0.0-0.1	Dec 17, 2013		Soil	S13-De16585			X						
FC059-0.5	Dec 17, 2013		Soil	S13-De16586	X	X		X	X	X	X	X	
FC059-1.0	Dec 17, 2013		Soil	S13-De16587	X	X		X	X	X	X	X	
FC059-2.0-2.1	Dec 17, 2013		Soil	S13-De16588			X						
FC059-3.0-3.1	Dec 17, 2013		Soil	S13-De16589			X						
FC060-0.0-0.1	Dec 17, 2013		Soil	S13-De16590			X						
FC060-0.5	Dec 17, 2013		Soil	S13-De16591			X						
FC060-1.0	Dec 17, 2013		Soil	S13-De16592	X				X	X	X	X	
FC060-2.0-2.1	Dec 17, 2013		Soil	S13-De16593	X								X
FC060-3.0-3.1	Dec 17, 2013		Soil	S13-De16594	X				X	X	X	X	

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Laboratory where analysis is conducted													
Melbourne Laboratory - NATA Site # 1254 & 14271													
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794													
External Laboratory													
FC060-4.0-4.1	Dec 17, 2013		Soil	S13-De16595			X						
FC061-0.0-0.1	Dec 17, 2013		Soil	S13-De16596			X						
FC061-0.5	Dec 17, 2013		Soil	S13-De16597			X						
FC061-1.0	Dec 17, 2013		Soil	S13-De16598	X								X
FC061-2.0-2.1	Dec 17, 2013		Soil	S13-De16599			X						
FC061-3.0-3.1	Dec 17, 2013		Soil	S13-De16600	X				X	X	X	X	
FC061-4.0-4.1	Dec 17, 2013		Soil	S13-De16601			X						
FC061-5.0-5.1	Dec 17, 2013		Soil	S13-De16602			X						
FC058-0.0-0.1	Dec 17, 2013		Soil	S13-De16603			X						
FC058-0.5	Dec 17, 2013		Soil	S13-De16604	X								X
FC058-1.0	Dec 17, 2013		Soil	S13-De16605			X						

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Laboratory where analysis is conducted													
Melbourne Laboratory - NATA Site # 1254 & 14271													
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794													
External Laboratory													
FC058-2.0-2.1	Dec 17, 2013		Soil	S13-De16606			X						
FC058-3.0-3.1	Dec 17, 2013		Soil	S13-De16607			X						
FC058-4.0-4.1	Dec 17, 2013		Soil	S13-De16608			X						
FC058-5.0-5.1	Dec 17, 2013		Soil	S13-De16609	X				X	X	X	X	
FC057-0.0-0.1	Dec 17, 2013		Soil	S13-De16610	X								X
FC057-0.5	Dec 17, 2013		Soil	S13-De16611			X						
FC057-1.0	Dec 17, 2013		Soil	S13-De16612			X						
FC057-2.0-2.1	Dec 17, 2013		Soil	S13-De16613	X				X	X	X	X	
FC057-3.0-3.1	Dec 17, 2013		Soil	S13-De16614			X						
FC057-4.0-4.1	Dec 17, 2013		Soil	S13-De16615			X						
FC057-5.0-5.1	Dec 17, 2013		Soil	S13-De16616			X						

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Eurofins | mgt Client Manager: Jean Heng

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Laboratory where analysis is conducted													
Melbourne Laboratory - NATA Site # 1254 & 14271													
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794													
External Laboratory													
QC02	Dec 17, 2013		Soil	S13-De16617	X								X
QC03	Dec 17, 2013		Soil	S13-De16618			X						
RINSATE	Dec 17, 2013		Water	S13-De16619					X	X	X	X	
TRIP SPIKE	Dec 17, 2013		Water	S13-De16620							X		
TRIP BLANK	Dec 17, 2013		Water	S13-De16621							X		

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Sample Receipt Advice

Company name: **JBS & G (NSW & WA) Pty Ltd**

Contact name: Joanne Rosner
Client job number: GREEN SQUARE 43182
COC number: Not provided
Turn around time: 5 Day
Date/Time received: Dec 17, 2013 5:35 PM
Eurofins | mgt reference: **403941**

Sample information

☑ A detailed list of analytes logged into our LIMS, is included in the attached summary table.

☑ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt Sample Receipt : 6 degrees Celsius.

☑ All samples have been received as described on the above COC.

☑ COC has been completed correctly.

☑ Attempt to chill was evident.

☑ Appropriately preserved sample containers have been used.

☑ All samples were received in good condition.

☑ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.

☑ Organic samples had Teflon liners.

☑ Sample containers for volatile analysis received with zero headspace.

☒ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Notes

Two jars received for FC059-3.0-3.1

Contact notes

If you have any questions with respect to these samples please contact:

Jean Heng on Phone : (+61) (2) 9900 8400 or by e.mail: JeanHeng@eurofins.com.au

Results will be delivered electronically via e.mail to Joanne Rosner - jrosner@jbsg.com.au.

Eurofins | mgt Sample Receipt

eurofins | mgt

Certificate of Analysis

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention: **Nathan Cussen**

Report **403941-W**
Client Reference GREEN SQUARE 43182
Received Date Dec 17, 2013

Client Sample ID			**RINSATE**	**TRIP SPIKE**	**TRIP BLANK**
Sample Matrix			**Water**	**Water**	**Water**
Eurofins | mgt Sample No.			**S13-De16619**	**S13-De16620**	**S13-De16621**
Date Sampled			**Dec 17, 2013**	**Dec 17, 2013**	**Dec 17, 2013**
Test/Reference	LOR	Unit			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions					
TRH C6-C9	0.02	mg/L	< 0.02	-	-
TRH C10-C14	0.05	mg/L	< 0.05	-	-
TRH C15-C28	0.1	mg/L	< 0.1	-	-
TRH C29-C36	0.1	mg/L	< 0.1	-	-
TRH C10-36 (Total)	0.1	mg/L	< 0.1	-	-
BTEX					
Benzene	0.001	mg/L	< 0.001	117%	< 0.001
Toluene	0.001	mg/L	< 0.001	99%	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001	94%	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002	101%	< 0.002
o-Xylene	0.001	mg/L	< 0.001	99%	< 0.001
Xylenes - Total	0.003	mg/L	< 0.003	100%	< 0.003
4-Bromofluorobenzene (surr.)	1	%	75	97	72
Total Recoverable Hydrocarbons - 2013 NEPM Fractions					
Naphthalene[N02]	0.02	mg/L	< 0.02	-	-
TRH C6-C10	0.02	mg/L	< 0.02	-	-
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	< 0.02	-	-
TRH >C10-C16	0.05	mg/L	< 0.05	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	0.05	mg/L	< 0.05	-	-
TRH >C16-C34	0.1	mg/L	< 0.1	-	-
TRH >C34-C40	0.1	mg/L	< 0.1	-	-
Polycyclic Aromatic Hydrocarbons					
Acenaphthene	0.001	mg/L	< 0.001	-	-
Acenaphthylene	0.001	mg/L	< 0.001	-	-
Anthracene	0.001	mg/L	< 0.001	-	-
Benz(a)anthracene	0.001	mg/L	< 0.001	-	-
Benzo(a)pyrene	0.001	mg/L	< 0.001	-	-
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	< 0.001	-	-
Benzo(g.h.i)perylene	0.001	mg/L	< 0.001	-	-
Benzo(k)fluoranthene	0.001	mg/L	< 0.001	-	-
Chrysene	0.001	mg/L	< 0.001	-	-
Dibenz(a.h)anthracene	0.001	mg/L	< 0.001	-	-
Fluoranthene	0.001	mg/L	< 0.001	-	-
Fluorene	0.001	mg/L	< 0.001	-	-
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001	-	-
Naphthalene	0.001	mg/L	< 0.001	-	-

Client Sample ID			RINSATE	TRIP SPIKE	TRIP BLANK
Sample Matrix			**Water**	**Water**	**Water**
Eurofins | mgt Sample No.			**S13-De16619**	**S13-De16620**	**S13-De16621**
Date Sampled			**Dec 17, 2013**	**Dec 17, 2013**	**Dec 17, 2013**
Test/Reference	LOR	Unit			
Polycyclic Aromatic Hydrocarbons					
Phenanthrene	0.001	mg/L	< 0.001	-	-
Pyrene	0.001	mg/L	< 0.001	-	-
Total PAH	0.001	mg/L	< 0.001	-	-
2-Fluorobiphenyl (surr.)	1	%	70	-	-
p-Terphenyl-d14 (surr.)	1	%	76	-	-
Heavy Metals					
Arsenic	0.005	mg/L	< 0.005	-	-
Cadmium	0.0005	mg/L	< 0.0005	-	-
Chromium	0.005	mg/L	< 0.005	-	-
Copper	0.005	mg/L	< 0.005	-	-
Lead	0.005	mg/L	< 0.005	-	-
Mercury	0.0001	mg/L	< 0.001	-	-
Nickel	0.005	mg/L	< 0.005	-	-
Zinc	0.005	mg/L	< 0.005	-	-

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Dec 18, 2013	7 Day
- Method: E004 Petroleum Hydrocarbons (TPH)			
BTEX	Sydney	Dec 17, 2013	14 Day
- Method: E029/E016 BTEX			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Dec 18, 2013	7 Day
- Method: LM-LTM-ORG2010			
Polycyclic Aromatic Hydrocarbons	Sydney	Dec 18, 2013	7 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Metals M8	Sydney	Dec 17, 2013	28 Day
- Method: E022/E030 Unfiltered Metals in Water & E026 Mercury			

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Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Total Recoverable Hydrocarbons	JBS&G Suite 2
Laboratory where analysis is conducted													
Melbourne Laboratory - NATA Site # 1254 & 14271													
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794													
External Laboratory													
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**									
FC059-0.0-0.1	Dec 17, 2013		Soil	S13-De16585			X						
FC059-0.5	Dec 17, 2013		Soil	S13-De16586	X	X		X	X	X	X	X	
FC059-1.0	Dec 17, 2013		Soil	S13-De16587	X	X		X	X	X	X	X	
FC059-2.0-2.1	Dec 17, 2013		Soil	S13-De16588			X						
FC059-3.0-3.1	Dec 17, 2013		Soil	S13-De16589			X						
FC060-0.0-0.1	Dec 17, 2013		Soil	S13-De16590			X						
FC060-0.5	Dec 17, 2013		Soil	S13-De16591			X						
FC060-1.0	Dec 17, 2013		Soil	S13-De16592	X				X	X	X	X	
FC060-2.0-2.1	Dec 17, 2013		Soil	S13-De16593	X								X
FC060-3.0-3.1	Dec 17, 2013		Soil	S13-De16594	X				X	X	X	X	

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Melbourne Laboratory - NATA Site # 1254 & 14271													
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794													
External Laboratory													
FC060-4.0-4.1	Dec 17, 2013		Soil	S13-De16595			X						
FC061-0.0-0.1	Dec 17, 2013		Soil	S13-De16596			X						
FC061-0.5	Dec 17, 2013		Soil	S13-De16597			X						
FC061-1.0	Dec 17, 2013		Soil	S13-De16598	X								X
FC061-2.0-2.1	Dec 17, 2013		Soil	S13-De16599			X						
FC061-3.0-3.1	Dec 17, 2013		Soil	S13-De16600	X				X	X	X	X	
FC061-4.0-4.1	Dec 17, 2013		Soil	S13-De16601			X						
FC061-5.0-5.1	Dec 17, 2013		Soil	S13-De16602			X						
FC058-0.0-0.1	Dec 17, 2013		Soil	S13-De16603			X						
FC058-0.5	Dec 17, 2013		Soil	S13-De16604	X								X
FC058-1.0	Dec 17, 2013		Soil	S13-De16605			X						

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Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: GREEN SQUARE 43182

Order No.:
Report #: 403941
Phone: 02 8245 0300
Fax:

Received: Dec 17, 2013 5:35 PM
Due: Dec 30, 2013
Priority: 5 Day
Contact Name: Joanne Rosner

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Total Recoverable Hydrocarbons	JBS&G Suite 2
Laboratory where analysis is conducted													
Melbourne Laboratory - NATA Site # 1254 & 14271													
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794													
External Laboratory													
FC058-2.0-2.1	Dec 17, 2013		Soil	S13-De16606			X						
FC058-3.0-3.1	Dec 17, 2013		Soil	S13-De16607			X						
FC058-4.0-4.1	Dec 17, 2013		Soil	S13-De16608			X						
FC058-5.0-5.1	Dec 17, 2013		Soil	S13-De16609	X				X	X	X	X	
FC057-0.0-0.1	Dec 17, 2013		Soil	S13-De16610	X								X
FC057-0.5	Dec 17, 2013		Soil	S13-De16611			X						
FC057-1.0	Dec 17, 2013		Soil	S13-De16612			X						
FC057-2.0-2.1	Dec 17, 2013		Soil	S13-De16613	X				X	X	X	X	
FC057-3.0-3.1	Dec 17, 2013		Soil	S13-De16614			X						
FC057-4.0-4.1	Dec 17, 2013		Soil	S13-De16615			X						
FC057-5.0-5.1	Dec 17, 2013		Soil	S13-De16616			X						

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Laboratory where analysis is conducted													
Melbourne Laboratory - NATA Site # 1254 & 14271													
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794													
External Laboratory													
QC02	Dec 17, 2013		Soil	S13-De16617	X								X
QC03	Dec 17, 2013		Soil	S13-De16618			X						
RINSATE	Dec 17, 2013		Water	S13-De16619					X	X	X	X	
TRIP SPIKE	Dec 17, 2013		Water	S13-De16620							X		
TRIP BLANK	Dec 17, 2013		Water	S13-De16621							X		

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/L	< 0.02			0.02	Pass	
TRH C10-C14	mg/L	< 0.05			0.05	Pass	
TRH C15-C28	mg/L	< 0.1			0.1	Pass	
TRH C29-C36	mg/L	< 0.1			0.1	Pass	
Method Blank							
BTEX							
Benzene	mg/L	< 0.001			0.001	Pass	
Toluene	mg/L	< 0.001			0.001	Pass	
Ethylbenzene	mg/L	< 0.001			0.001	Pass	
m&p-Xylenes	mg/L	< 0.002			0.002	Pass	
o-Xylene	mg/L	< 0.001			0.001	Pass	
Xylenes - Total	mg/L	< 0.003			0.003	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/L	< 0.02			0.02	Pass	
TRH C6-C10	mg/L	< 0.02			0.02	Pass	
TRH C6-C10 less BTEX (F1)	mg/L	< 0.02			0.02	Pass	
TRH >C10-C16	mg/L	< 0.05			0.05	Pass	
TRH >C16-C34	mg/L	< 0.1			0.1	Pass	
TRH >C34-C40	mg/L	< 0.1			0.1	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/L	< 0.001			0.001	Pass	
Acenaphthylene	mg/L	< 0.001			0.001	Pass	
Anthracene	mg/L	< 0.001			0.001	Pass	
Benz(a)anthracene	mg/L	< 0.001			0.001	Pass	
Benzo(a)pyrene	mg/L	< 0.001			0.001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.001			0.001	Pass	
Benzo(g.h.i)perylene	mg/L	< 0.001			0.001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.001			0.001	Pass	
Chrysene	mg/L	< 0.001			0.001	Pass	
Dibenz(a.h)anthracene	mg/L	< 0.001			0.001	Pass	
Fluoranthene	mg/L	< 0.001			0.001	Pass	
Fluorene	mg/L	< 0.001			0.001	Pass	
Indeno(1.2.3-cd)pyrene	mg/L	< 0.001			0.001	Pass	
Naphthalene	mg/L	< 0.001			0.001	Pass	
Phenanthrene	mg/L	< 0.001			0.001	Pass	
Pyrene	mg/L	< 0.001			0.001	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.005			0.005	Pass	
Cadmium	mg/L	< 0.0005			0.0005	Pass	
Chromium	mg/L	< 0.005			0.005	Pass	
Copper	mg/L	< 0.005			0.005	Pass	
Lead	mg/L	< 0.005			0.005	Pass	
Mercury	mg/L	< 0.0001			0.0001	Pass	
Nickel	mg/L	< 0.005			0.005	Pass	
Zinc	mg/L	< 0.005			0.005	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
TRH C6-C9	%	93			70-130	Pass	
TRH C10-C14	%	99			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	117			70-130	Pass	
Toluene	%	97			70-130	Pass	
Ethylbenzene	%	94			70-130	Pass	
m&p-Xylenes	%	94			70-130	Pass	
o-Xylene	%	97			70-130	Pass	
Xylenes - Total	%	95			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	88			70-130	Pass	
TRH C6-C10	%	104			70-130	Pass	
TRH >C10-C16	%	104			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	108			70-130	Pass	
Acenaphthylene	%	108			70-130	Pass	
Anthracene	%	103			70-130	Pass	
Benz(a)anthracene	%	110			70-130	Pass	
Benzo(a)pyrene	%	102			70-130	Pass	
Benzo(b&j)fluoranthene	%	120			70-130	Pass	
Benzo(g.h.i)perylene	%	100			70-130	Pass	
Benzo(k)fluoranthene	%	108			70-130	Pass	
Chrysene	%	107			70-130	Pass	
Dibenz(a.h)anthracene	%	97			70-130	Pass	
Fluoranthene	%	107			70-130	Pass	
Fluorene	%	107			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	106			70-130	Pass	
Naphthalene	%	110			70-130	Pass	
Phenanthrene	%	106			70-130	Pass	
Pyrene	%	114			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	103			70-130	Pass	
Cadmium	%	103			70-130	Pass	
Chromium	%	100			70-130	Pass	
Copper	%	99			70-130	Pass	
Lead	%	96			70-130	Pass	
Mercury	%	96			70-130	Pass	
Nickel	%	99			70-130	Pass	
Zinc	%	100			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S13-De14551	NCP	%	87			70-130	Pass	
TRH C10-C14	S13-De14547	NCP	%	85			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S13-De14551	NCP	%	109			70-130	Pass	
Toluene	S13-De14551	NCP	%	96			70-130	Pass	
Ethylbenzene	S13-De14551	NCP	%	94			70-130	Pass	
m&p-Xylenes	S13-De14551	NCP	%	100			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
o-Xylene	S13-De14551	NCP	%	98			70-130	Pass	
Xylenes - Total	S13-De14551	NCP	%	99			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S13-De14551	NCP	%	91			70-130	Pass	
TRH C6-C10	S13-De14551	NCP	%	92			70-130	Pass	
TRH >C10-C16	S13-De14547	NCP	%	89			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S13-De18760	NCP	%	128			70-130	Pass	
Acenaphthylene	S13-De18760	NCP	%	126			70-130	Pass	
Anthracene	S13-De18760	NCP	%	119			70-130	Pass	
Benz(a)anthracene	S13-De18760	NCP	%	109			70-130	Pass	
Benzo(a)pyrene	S13-De18760	NCP	%	97			70-130	Pass	
Benzo(b&j)fluoranthene	S13-De18760	NCP	%	114			70-130	Pass	
Benzo(g.h.i)perylene	S13-De18760	NCP	%	106			70-130	Pass	
Benzo(k)fluoranthene	S13-De18760	NCP	%	126			70-130	Pass	
Chrysene	S13-De18760	NCP	%	121			70-130	Pass	
Dibenz(a.h)anthracene	S13-De18760	NCP	%	89			70-130	Pass	
Fluoranthene	S13-De18760	NCP	%	120			70-130	Pass	
Fluorene	S13-De18760	NCP	%	127			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S13-De18760	NCP	%	102			70-130	Pass	
Naphthalene	S13-De18760	NCP	%	129			70-130	Pass	
Phenanthrene	S13-De18760	NCP	%	118			70-130	Pass	
Pyrene	S13-De18760	NCP	%	126			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S13-De16619	CP	%	100			70-130	Pass	
Cadmium	S13-De16619	CP	%	99			70-130	Pass	
Chromium	S13-De16619	CP	%	97			70-130	Pass	
Copper	S13-De16619	CP	%	95			70-130	Pass	
Lead	S13-De16619	CP	%	94			70-130	Pass	
Mercury	S13-De16619	CP	%	95			70-130	Pass	
Nickel	S13-De16619	CP	%	97			70-130	Pass	
Zinc	S13-De16619	CP	%	98			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S13-De18770	NCP	mg/L	0.047	0.050	7.0	30%	Pass	
TRH C10-C14	S13-De13373	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH C15-C28	S13-De13373	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH C29-C36	S13-De13373	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S13-De18770	NCP	mg/L	0.0083	0.0083	1.0	30%	Pass	
Toluene	S13-De18770	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Ethylbenzene	S13-De18770	NCP	mg/L	0.0010	0.0011	5.0	30%	Pass	
m&p-Xylenes	S13-De18770	NCP	mg/L	0.0023	0.0023	2.0	30%	Pass	
o-Xylene	S13-De18770	NCP	mg/L	0.0013	0.0013	3.0	30%	Pass	
Xylenes - Total	S13-De18770	NCP	mg/L	0.0035	0.0036	3.0	30%	Pass	

Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S13-De18770	NCP	mg/L	0.030	0.030	2.0	30%	Pass	
TRH C6-C10	S13-De18770	NCP	mg/L	0.066	0.070	6.0	30%	Pass	
TRH C6-C10 less BTEX (F1)	S13-De18770	NCP	mg/L	0.053	0.057	8.0	30%	Pass	
TRH >C10-C16	S13-De13373	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH >C16-C34	S13-De13373	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH >C34-C40	S13-De13373	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S13-De18759	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Acenaphthylene	S13-De18759	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Anthracene	S13-De18759	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benz(a)anthracene	S13-De18759	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(a)pyrene	S13-De18759	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(b&j)fluoranthene	S13-De18759	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(g.h.i)perylene	S13-De18759	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(k)fluoranthene	S13-De18759	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chrysene	S13-De18759	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibenz(a.h)anthracene	S13-De18759	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluoranthene	S13-De18759	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluorene	S13-De18759	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S13-De18759	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Naphthalene	S13-De18759	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Phenanthrene	S13-De18759	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Pyrene	S13-De18759	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S13-De10982	NCP	mg/L	< 0.005	**	<1	30%	Pass	
Cadmium	S13-De10982	NCP	mg/L	< 0.0005	**	<1	30%	Pass	
Chromium	S13-De10982	NCP	mg/L	< 0.005	**	22	30%	Pass	
Copper	S13-De10982	NCP	mg/L	< 0.005	**	<1	30%	Pass	
Lead	S13-De10982	NCP	mg/L	< 0.005	**	<1	30%	Pass	
Mercury	S13-De10982	NCP	mg/L	< 0.0001	**	<1	30%	Pass	
Nickel	S13-De10982	NCP	mg/L	< 0.005	**	<1	30%	Pass	
Zinc	S13-De10982	NCP	mg/L	< 0.005	**	<1	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs

Authorised By

Jean Heng	Client Services
James Norford	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)
Ryan Hamilton	Senior Analyst-Volatile (NSW)

Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

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JBS & G (NSW & WA) Pty Ltd
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Sydney
NSW 2000

Attention: **Nathan Cussen**

Report **403941-S**
Client Reference GREEN SQUARE 43182
Received Date Dec 17, 2013

Client Sample ID			**FC059-0.5**	**FC059-1.0**	**FC060-1.0**	**FC060-2.0-2.1**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**S13-De16586**	**S13-De16587**	**S13-De16592**	**S13-De16593**
Date Sampled			**Dec 17, 2013**	**Dec 17, 2013**	**Dec 17, 2013**	**Dec 17, 2013**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	160	460	56	600
TRH C29-C36	50	mg/kg	130	340	82	750
TRH C10-36 (Total)	50	mg/kg	290	800	140	1400
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	98	92	84	88
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	320	910	150	1500
TRH >C34-C40	100	mg/kg	< 100	130	< 100	400
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	0.7	< 0.5	0.5
Anthracene	0.5	mg/kg	1.6	4.5	< 0.5	1.6
Benz(a)anthracene	0.5	mg/kg	4.4	23	0.5	9.8
Benzo(a)pyrene	0.5	mg/kg	4.6	18	0.8	13
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	4.0	16	0.7	12
Benzo(g.h.i)perylene	0.5	mg/kg	2.3	11	0.6	9.0
Benzo(k)fluoranthene	0.5	mg/kg	2.7	11	< 0.5	7.2
Chrysene	0.5	mg/kg	3.9	17	0.5	7.9
Dibenz(a.h)anthracene	0.5	mg/kg	0.6	2.6	< 0.5	2.2
Fluoranthene	0.5	mg/kg	8.1	33	0.9	7.0
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	2.0	8.9	< 0.5	6.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.6

Client Sample ID			FC059-0.5	FC059-1.0	FC060-1.0	FC060-2.0-2.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			S13-De16586	S13-De16587	S13-De16592	S13-De16593
Date Sampled			Dec 17, 2013	Dec 17, 2013	Dec 17, 2013	Dec 17, 2013
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Phenanthrene	0.5	mg/kg	5.7	11	0.5	2.1
Pyrene	0.5	mg/kg	8.1	36	1.0	14
Total PAH	0.5	mg/kg	48	190	5.5	93
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	6.6	27	0.9	19
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	6.6	27	1.2	19
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	6.6	27	1.5	19
2-Fluorobiphenyl (surr.)	1	%	95	88	93	95
p-Terphenyl-d14 (surr.)	1	%	115	111	121	124
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	-	-	< 0.05
a-BHC	0.05	mg/kg	-	-	-	< 0.05
Aldrin	0.05	mg/kg	-	-	-	< 0.05
b-BHC	0.05	mg/kg	-	-	-	< 0.05
d-BHC	0.05	mg/kg	-	-	-	< 0.05
Dieldrin	0.05	mg/kg	-	-	-	< 0.05
Endosulfan I	0.05	mg/kg	-	-	-	< 0.05
Endosulfan II	0.05	mg/kg	-	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	-	-	< 0.05
Endrin	0.05	mg/kg	-	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	-	-	< 0.05
Endrin ketone	0.05	mg/kg	-	-	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	-	-	< 0.05
Heptachlor	0.05	mg/kg	-	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	-	< 0.05
Methoxychlor	0.2	mg/kg	-	-	-	< 0.2
Toxaphene	1	mg/kg	-	-	-	< 1
Dibutylchlorendate (surr.)	1	%	-	-	-	111
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	82
Polychlorinated Biphenyls (PCB)						
Aroclor-1016	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1232	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1242	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1248	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1254	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1260	0.5	mg/kg	-	-	-	< 0.5
Total PCB	0.5	mg/kg	-	-	-	< 0.5
Dibutylchlorendate (surr.)	1	%	-	-	-	111
Conductivity (1:5 aqueous extract at 25°C)	5	uS/cm	130	92	-	-
pH (1:5 Aqueous extract)	0.1	units	8.2	8.4	-	-
% Moisture	0.1	%	12	21	19	22

Client Sample ID			FC059-0.5	FC059-1.0	FC060-1.0	FC060-2.0-2.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			S13-De16586	S13-De16587	S13-De16592	S13-De16593
Date Sampled			Dec 17, 2013	Dec 17, 2013	Dec 17, 2013	Dec 17, 2013
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	< 2	30	< 2	4.6
Cadmium	0.4	mg/kg	1.9	3.8	4.9	3.1
Chromium	5	mg/kg	19	46	30	47
Copper	5	mg/kg	120	3100	240	760
Lead	5	mg/kg	570	2400	680	1600
Mercury	0.05	mg/kg	0.56	2.6	0.47	3.8
Nickel	5	mg/kg	12	55	21	27
Zinc	5	mg/kg	470	3200	600	1600

Client Sample ID			FC060-3.0-3.1	FC061-1.0	FC061-3.0-3.1	FC058-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			S13-De16594	S13-De16598	S13-De16600	S13-De16604
Date Sampled			Dec 17, 2013	Dec 17, 2013	Dec 17, 2013	Dec 17, 2013
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	300	150	110	77
TRH C29-C36	50	mg/kg	420	160	120	95
TRH C10-36 (Total)	50	mg/kg	720	310	230	170
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	94	91	93	89
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	780	340	240	180
TRH >C34-C40	100	mg/kg	170	< 100	< 100	< 100
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	0.7	< 0.5	< 0.5
Anthracene	0.5	mg/kg	0.7	2.1	1.2	0.6
Benz(a)anthracene	0.5	mg/kg	3.7	5.3	3.6	2.2
Benzo(a)pyrene	0.5	mg/kg	5.4	5.7	3.5	2.8
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	5.5	2.8	2.1	2.7
Benzo(g.h.i)perylene	0.5	mg/kg	3.9	2.9	1.8	1.6
Benzo(k)fluoranthene	0.5	mg/kg	3.2	3.3	2.0	1.8
Chrysene	0.5	mg/kg	3.2	4.0	2.8	1.8
Dibenz(a.h)anthracene	0.5	mg/kg	1.0	0.8	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	1.9	10	6.4	3.5

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC060-3.0-3.1 Soil S13-De16594 Dec 17, 2013	FC061-1.0 Soil S13-De16598 Dec 17, 2013	FC061-3.0-3.1 Soil S13-De16600 Dec 17, 2013	FC058-0.5 Soil S13-De16604 Dec 17, 2013
Polycyclic Aromatic Hydrocarbons						
Fluorene	0.5	mg/kg	< 0.5	0.6	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	2.9	2.5	1.6	1.4
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	0.6	5.9	4.8	1.8
Pyrene	0.5	mg/kg	4.8	8.9	6.1	3.4
Total PAH	0.5	mg/kg	37	56	36	24
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	7.9	8.0	4.4	3.7
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	7.9	8.0	4.7	3.9
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	7.9	8.0	4.9	4.2
2-Fluorobiphenyl (surr.)	1	%	94	94	98	93
p-Terphenyl-d14 (surr.)	1	%	120	120	124	122
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	< 0.05
a-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
Aldrin	0.05	mg/kg	-	< 0.05	-	< 0.05
b-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
d-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
Dieldrin	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan I	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan II	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin ketone	0.05	mg/kg	-	< 0.05	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	< 0.05	-	< 0.05
Heptachlor	0.05	mg/kg	-	< 0.05	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	< 0.05
Methoxychlor	0.2	mg/kg	-	< 0.2	-	< 0.2
Toxaphene	1	mg/kg	-	< 1	-	< 1
Dibutylchlorendate (surr.)	1	%	-	90	-	95
Tetrachloro-m-xylene (surr.)	1	%	-	73	-	76
Polychlorinated Biphenyls (PCB)						
Aroclor-1016	0.5	mg/kg	-	< 0.5	-	< 0.5
Aroclor-1232	0.5	mg/kg	-	< 0.5	-	< 0.5
Aroclor-1242	0.5	mg/kg	-	< 0.5	-	< 0.5
Aroclor-1248	0.5	mg/kg	-	< 0.5	-	< 0.5
Aroclor-1254	0.5	mg/kg	-	< 0.5	-	< 0.5
Aroclor-1260	0.5	mg/kg	-	< 0.5	-	< 0.5
Total PCB	0.5	mg/kg	-	< 0.5	-	< 0.5
Dibutylchlorendate (surr.)	1	%	-	90	-	95
% Moisture	0.1	%	14	12	17	18

Client Sample ID			FC060-3.0-3.1	FC061-1.0	FC061-3.0-3.1	FC058-0.5
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**S13-De16594**	**S13-De16598**	**S13-De16600**	**S13-De16604**
Date Sampled			**Dec 17, 2013**	**Dec 17, 2013**	**Dec 17, 2013**	**Dec 17, 2013**
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	8.2	< 2	< 2	< 2
Cadmium	0.4	mg/kg	3.3	1.7	5.6	1.8
Chromium	5	mg/kg	17	13	26	8.0
Copper	5	mg/kg	1000	170	220	110
Lead	5	mg/kg	700	380	490	240
Mercury	0.05	mg/kg	0.62	0.24	0.30	0.12
Nickel	5	mg/kg	34	18	20	15
Zinc	5	mg/kg	1200	400	650	330

Client Sample ID			FC058-5.0-5.1	FC057-0.0-0.1	FC057-2.0-2.1	QC02
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**S13-De16609**	**S13-De16610**	**S13-De16613**	**S13-De16617**
Date Sampled			**Dec 17, 2013**	**Dec 17, 2013**	**Dec 17, 2013**	**Dec 17, 2013**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	79	330	81	< 50
TRH C29-C36	50	mg/kg	100	280	140	61
TRH C10-36 (Total)	50	mg/kg	180	610	220	61
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	82	93	100	90
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	190	670	220	120
TRH >C34-C40	100	mg/kg	< 100	120	< 100	< 100
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	1.1	< 0.5	< 0.5
Anthracene	0.5	mg/kg	0.6	5.8	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	2.2	12	1.1	1.6
Benzo(a)pyrene	0.5	mg/kg	2.2	14	1.2	1.8
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	1.3	9.9	0.8	1.7
Benzo(g.h.i)perylene	0.5	mg/kg	1.1	6.8	0.8	1.1
Benzo(k)fluoranthene	0.5	mg/kg	1.4	7.3	0.8	1.1
Chrysene	0.5	mg/kg	1.7	10	0.9	1.3
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	1.9	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	3.6	25	2.0	2.4

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC058-5.0-5.1 Soil S13-De16609 Dec 17, 2013	FC057-0.0-0.1 Soil S13-De16610 Dec 17, 2013	FC057-2.0-2.1 Soil S13-De16613 Dec 17, 2013	QC02 Soil S13-De16617 Dec 17, 2013
Polycyclic Aromatic Hydrocarbons						
Fluorene	0.5	mg/kg	< 0.5	0.9	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	1.0	5.9	0.7	0.9
Naphthalene	0.5	mg/kg	< 0.5	0.7	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	1.7	25	1.0	1.1
Pyrene	0.5	mg/kg	3.4	24	1.9	2.4
Total PAH	0.5	mg/kg	20	150	11	15
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	2.8	19	1.6	2.4
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	3.0	19	1.8	2.6
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	3.3	19	2.1	2.9
2-Fluorobiphenyl (surr.)	1	%	91	93	90	94
p-Terphenyl-d14 (surr.)	1	%	116	117	117	118
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	< 0.05
a-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
Aldrin	0.05	mg/kg	-	< 0.05	-	< 0.05
b-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
d-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
Dieldrin	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan I	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan II	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin ketone	0.05	mg/kg	-	< 0.05	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	< 0.05	-	< 0.05
Heptachlor	0.05	mg/kg	-	< 0.05	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	< 0.05
Methoxychlor	0.2	mg/kg	-	< 0.2	-	< 0.2
Toxaphene	1	mg/kg	-	< 1	-	< 1
Dibutylchlorendate (surr.)	1	%	-	81	-	98
Tetrachloro-m-xylene (surr.)	1	%	-	75	-	79
Polychlorinated Biphenyls (PCB)						
Aroclor-1016	0.5	mg/kg	-	< 0.5	-	< 0.5
Aroclor-1232	0.5	mg/kg	-	< 0.5	-	< 0.5
Aroclor-1242	0.5	mg/kg	-	< 0.5	-	< 0.5
Aroclor-1248	0.5	mg/kg	-	< 0.5	-	< 0.5
Aroclor-1254	0.5	mg/kg	-	< 0.5	-	< 0.5
Aroclor-1260	0.5	mg/kg	-	< 0.5	-	< 0.5
Total PCB	0.5	mg/kg	-	< 0.5	-	< 0.5
Dibutylchlorendate (surr.)	1	%	-	81	-	98
% Moisture	0.1	%	20	10	15	18

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC058-5.0-5.1 Soil S13-De16609 Dec 17, 2013	FC057-0.0-0.1 Soil S13-De16610 Dec 17, 2013	FC057-2.0-2.1 Soil S13-De16613 Dec 17, 2013	QC02 Soil S13-De16617 Dec 17, 2013
Heavy Metals						
Arsenic	2	mg/kg	< 2	< 2	< 2	3.8
Cadmium	0.4	mg/kg	3.0	1.6	1.3	1.6
Chromium	5	mg/kg	14	33	11	9.1
Copper	5	mg/kg	170	230	280	120
Lead	5	mg/kg	550	340	460	500
Mercury	0.05	mg/kg	0.24	0.20	0.41	0.12
Nickel	5	mg/kg	19	30	11	18
Zinc	5	mg/kg	390	370	280	370

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Dec 18, 2013	14 Day
- Method: E004 Petroleum Hydrocarbons (TPH)			
BTEX	Sydney	Dec 17, 2013	14 Day
- Method: E029/E016 BTEX			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Dec 18, 2013	14 Day
- Method: LM-LTM-ORG2010			
Polycyclic Aromatic Hydrocarbons	Sydney	Dec 18, 2013	14 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Organochlorine Pesticides	Sydney	Dec 18, 2013	14 Day
- Method: E013 Organochlorine Pesticides (OC)			
Polychlorinated Biphenyls (PCB)	Sydney	Dec 18, 2013	28 Day
- Method: E013 Polychlorinated Biphenyls (PCB)			
Metals M8	Sydney	Dec 17, 2013	28 Day
- Method: E022 Acid Extractable metals in Soils & E026 Mercury			
Conductivity (1:5 aqueous extract at 25°C)	Sydney	Dec 18, 2013	7 Day
- Method: E032.2 Electrical Conductivity (EC)			
pH (1:5 Aqueous extract)	Sydney	Dec 18, 2013	7 Day
- Method: E018.2 pH			
% Moisture	Sydney	Dec 17, 2013	28 Day
- Method: E005 Moisture Content			

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NATA # 1261 Site # 18217

Brisbane
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Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: GREEN SQUARE 43182

Order No.:
Report #: 403941
Phone: 02 8245 0300
Fax:

Received: Dec 17, 2013 5:35 PM
Due: Dec 30, 2013
Priority: 5 Day
Contact Name: Joanne Rosner

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Total Recoverable Hydrocarbons	JBS&G Suite 2
Laboratory where analysis is conducted													
Melbourne Laboratory - NATA Site # 1254 & 14271													
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794													
External Laboratory													
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**									
FC059-0.0-0.1	Dec 17, 2013		Soil	S13-De16585			X						
FC059-0.5	Dec 17, 2013		Soil	S13-De16586	X	X		X	X	X	X	X	
FC059-1.0	Dec 17, 2013		Soil	S13-De16587	X	X		X	X	X	X	X	
FC059-2.0-2.1	Dec 17, 2013		Soil	S13-De16588			X						
FC059-3.0-3.1	Dec 17, 2013		Soil	S13-De16589			X						
FC060-0.0-0.1	Dec 17, 2013		Soil	S13-De16590			X						
FC060-0.5	Dec 17, 2013		Soil	S13-De16591			X						
FC060-1.0	Dec 17, 2013		Soil	S13-De16592	X				X	X	X	X	
FC060-2.0-2.1	Dec 17, 2013		Soil	S13-De16593	X								X
FC060-3.0-3.1	Dec 17, 2013		Soil	S13-De16594	X				X	X	X	X	

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Laboratory where analysis is conducted													
Melbourne Laboratory - NATA Site # 1254 & 14271													
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794													
External Laboratory													
FC060-4.0-4.1	Dec 17, 2013		Soil	S13-De16595			X						
FC061-0.0-0.1	Dec 17, 2013		Soil	S13-De16596			X						
FC061-0.5	Dec 17, 2013		Soil	S13-De16597			X						
FC061-1.0	Dec 17, 2013		Soil	S13-De16598	X								X
FC061-2.0-2.1	Dec 17, 2013		Soil	S13-De16599			X						
FC061-3.0-3.1	Dec 17, 2013		Soil	S13-De16600	X				X	X	X	X	
FC061-4.0-4.1	Dec 17, 2013		Soil	S13-De16601			X						
FC061-5.0-5.1	Dec 17, 2013		Soil	S13-De16602			X						
FC058-0.0-0.1	Dec 17, 2013		Soil	S13-De16603			X						
FC058-0.5	Dec 17, 2013		Soil	S13-De16604	X								X
FC058-1.0	Dec 17, 2013		Soil	S13-De16605			X						

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Laboratory where analysis is conducted													
Melbourne Laboratory - NATA Site # 1254 & 14271													
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794													
External Laboratory													
FC058-2.0-2.1	Dec 17, 2013		Soil	S13-De16606			X						
FC058-3.0-3.1	Dec 17, 2013		Soil	S13-De16607			X						
FC058-4.0-4.1	Dec 17, 2013		Soil	S13-De16608			X						
FC058-5.0-5.1	Dec 17, 2013		Soil	S13-De16609	X				X	X	X	X	
FC057-0.0-0.1	Dec 17, 2013		Soil	S13-De16610	X								X
FC057-0.5	Dec 17, 2013		Soil	S13-De16611			X						
FC057-1.0	Dec 17, 2013		Soil	S13-De16612			X						
FC057-2.0-2.1	Dec 17, 2013		Soil	S13-De16613	X				X	X	X	X	
FC057-3.0-3.1	Dec 17, 2013		Soil	S13-De16614			X						
FC057-4.0-4.1	Dec 17, 2013		Soil	S13-De16615			X						
FC057-5.0-5.1	Dec 17, 2013		Soil	S13-De16616			X						

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Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Total Recoverable Hydrocarbons	JBS&G Suite 2
Laboratory where analysis is conducted													
Melbourne Laboratory - NATA Site # 1254 & 14271													
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794													
External Laboratory													
QC02	Dec 17, 2013		Soil	S13-De16617	X								X
QC03	Dec 17, 2013		Soil	S13-De16618			X						
RINSATE	Dec 17, 2013		Water	S13-De16619					X	X	X	X	
TRIP SPIKE	Dec 17, 2013		Water	S13-De16620							X		
TRIP BLANK	Dec 17, 2013		Water	S13-De16621							X		

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH C6-C10 less BTEX (F1)	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-BHC	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-BHC	mg/kg	< 0.05			0.05	Pass	
d-BHC	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-BHC (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.2			0.2	Pass	
Toxaphene	mg/kg	< 1			1	Pass	
Method Blank							
Polychlorinated Biphenyls (PCB)							
Aroclor-1016	mg/kg	< 0.5			0.5	Pass	
Aroclor-1232	mg/kg	< 0.5			0.5	Pass	
Aroclor-1242	mg/kg	< 0.5			0.5	Pass	
Aroclor-1248	mg/kg	< 0.5			0.5	Pass	
Aroclor-1254	mg/kg	< 0.5			0.5	Pass	
Aroclor-1260	mg/kg	< 0.5			0.5	Pass	
Total PCB	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.05			0.05	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	78			70-130	Pass	
TRH C10-C14	%	84			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	103			70-130	Pass	
Toluene	%	92			70-130	Pass	
Ethylbenzene	%	89			70-130	Pass	
m&p-Xylenes	%	96			70-130	Pass	
o-Xylene	%	94			70-130	Pass	
Xylenes - Total	%	95			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	114			70-130	Pass	
TRH C6-C10	%	80			70-130	Pass	
TRH >C10-C16	%	100			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	110			70-130	Pass	
Acenaphthylene	%	97			70-130	Pass	
Anthracene	%	127			70-130	Pass	
Benz(a)anthracene	%	99			70-130	Pass	
Benzo(a)pyrene	%	129			70-130	Pass	
Benzo(b&j)fluoranthene	%	122			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Benzo(g.h.i)perylene	%	113			70-130	Pass	
Benzo(k)fluoranthene	%	125			70-130	Pass	
Chrysene	%	112			70-130	Pass	
Dibenz(a.h)anthracene	%	112			70-130	Pass	
Fluoranthene	%	112			70-130	Pass	
Fluorene	%	101			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	115			70-130	Pass	
Naphthalene	%	110			70-130	Pass	
Phenanthrene	%	107			70-130	Pass	
Pyrene	%	107			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	85			70-130	Pass	
4.4'-DDD	%	96			70-130	Pass	
4.4'-DDE	%	85			70-130	Pass	
4.4'-DDT	%	93			70-130	Pass	
a-BHC	%	89			70-130	Pass	
Aldrin	%	81			70-130	Pass	
b-BHC	%	103			70-130	Pass	
d-BHC	%	102			70-130	Pass	
Dieldrin	%	86			70-130	Pass	
Endosulfan I	%	84			70-130	Pass	
Endosulfan II	%	97			70-130	Pass	
Endosulfan sulphate	%	117			70-130	Pass	
Endrin	%	87			70-130	Pass	
Endrin aldehyde	%	96			70-130	Pass	
Endrin ketone	%	105			70-130	Pass	
g-BHC (Lindane)	%	91			70-130	Pass	
Heptachlor	%	82			70-130	Pass	
Heptachlor epoxide	%	85			70-130	Pass	
Hexachlorobenzene	%	71			70-130	Pass	
Methoxychlor	%	116			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls (PCB)							
Aroclor-1260	%	90			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	79			70-130	Pass	
Cadmium	%	93			70-130	Pass	
Chromium	%	104			70-130	Pass	
Copper	%	109			70-130	Pass	
Lead	%	93			70-130	Pass	
Mercury	%	95			70-130	Pass	
Nickel	%	103			70-130	Pass	
Zinc	%	97			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S13-De16586	CP	%	75			70-130	Pass	
TRH C10-C14	S13-De16586	CP	%	84			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S13-De16586	CP	%	98			70-130	Pass	
Toluene	S13-De16586	CP	%	88			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Ethylbenzene	S13-De16586	CP	%	84			70-130	Pass	
m&p-Xylenes	S13-De16586	CP	%	90			70-130	Pass	
o-Xylene	S13-De16586	CP	%	90			70-130	Pass	
Xylenes - Total	S13-De16586	CP	%	90			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S13-De16586	CP	%	107			70-130	Pass	
TRH C6-C10	S13-De16586	CP	%	82			70-130	Pass	
TRH >C10-C16	S13-De16586	CP	%	103			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S13-De11230	NCP	%	112			70-130	Pass	
Acenaphthylene	S13-De11230	NCP	%	105			70-130	Pass	
Anthracene	S13-De11230	NCP	%	109			70-130	Pass	
Benz(a)anthracene	S13-De11230	NCP	%	103			70-130	Pass	
Benzo(a)pyrene	S13-De11230	NCP	%	101			70-130	Pass	
Benzo(b&j)fluoranthene	S13-De11230	NCP	%	127			70-130	Pass	
Benzo(g.h.i)perylene	S13-De11230	NCP	%	73			70-130	Pass	
Benzo(k)fluoranthene	S13-De11230	NCP	%	113			70-130	Pass	
Chrysene	S13-De11230	NCP	%	114			70-130	Pass	
Dibenz(a.h)anthracene	S13-De11230	NCP	%	92			70-130	Pass	
Fluoranthene	S13-De11230	NCP	%	111			70-130	Pass	
Fluorene	S13-De11230	NCP	%	105			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S13-De11230	NCP	%	84			70-130	Pass	
Naphthalene	S13-De11230	NCP	%	110			70-130	Pass	
Phenanthrene	S13-De11230	NCP	%	129			70-130	Pass	
Pyrene	S13-De11230	NCP	%	102			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S13-De16586	CP	%	83			70-130	Pass	
Cadmium	S13-De16586	CP	%	82			70-130	Pass	
Chromium	S13-De16586	CP	%	71			70-130	Pass	
Copper	S13-De16872	NCP	%	109			70-130	Pass	
Lead	S13-De16872	NCP	%	109			70-130	Pass	
Mercury	S13-De16243	NCP	%	86			70-130	Pass	
Nickel	S13-De16586	CP	%	81			70-130	Pass	
Zinc	S13-De12884	NCP	%	104			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S13-De15455	NCP	%	82			70-130	Pass	
4.4'-DDD	S13-De15455	NCP	%	109			70-130	Pass	
4.4'-DDE	S13-De15455	NCP	%	87			70-130	Pass	
4.4'-DDT	S13-De15455	NCP	%	88			70-130	Pass	
a-BHC	S13-De15455	NCP	%	90			70-130	Pass	
Aldrin	S13-De15455	NCP	%	84			70-130	Pass	
b-BHC	S13-De15455	NCP	%	105			70-130	Pass	
d-BHC	S13-De15455	NCP	%	108			70-130	Pass	
Dieldrin	S13-De15455	NCP	%	83			70-130	Pass	
Endosulfan I	S13-De15455	NCP	%	84			70-130	Pass	
Endosulfan II	S13-De15455	NCP	%	88			70-130	Pass	
Endosulfan sulphate	S13-De15455	NCP	%	101			70-130	Pass	
Endrin	S13-De15455	NCP	%	79			70-130	Pass	
Endrin aldehyde	S13-De15455	NCP	%	85			70-130	Pass	
Endrin ketone	S13-De15455	NCP	%	88			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
g-BHC (Lindane)	S13-De15455	NCP	%	94			70-130	Pass	
Heptachlor	S13-De15455	NCP	%	76			70-130	Pass	
Heptachlor epoxide	S13-De15455	NCP	%	83			70-130	Pass	
Hexachlorobenzene	S13-De15455	NCP	%	77			70-130	Pass	
Methoxychlor	S13-De15455	NCP	%	88			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls (PCB)				Result 1					
Aroclor-1260	S13-De15455	NCP	%	83			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S13-De16613	CP	%	82			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S13-De16613	CP	%	99			70-130	Pass	
Toluene	S13-De16613	CP	%	89			70-130	Pass	
Ethylbenzene	S13-De16613	CP	%	85			70-130	Pass	
m&p-Xylenes	S13-De16613	CP	%	90			70-130	Pass	
o-Xylene	S13-De16613	CP	%	89			70-130	Pass	
Xylenes - Total	S13-De16613	CP	%	90			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S13-De16613	CP	%	106			70-130	Pass	
TRH C6-C10	S13-De16613	CP	%	83			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S13-De16586	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S13-De16586	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S13-De16586	CP	mg/kg	160	160	<1	30%	Pass	
TRH C29-C36	S13-De16586	CP	mg/kg	130	120	3.0	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S13-De16586	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S13-De16586	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S13-De16586	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S13-De16586	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S13-De16586	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total	S13-De16586	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S13-De16586	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S13-De16586	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S13-De16586	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S13-De16586	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S13-De16586	CP	mg/kg	320	320	1.0	30%	Pass	
TRH >C34-C40	S13-De16586	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S13-De16586	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S13-De16586	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S13-De16586	CP	mg/kg	1.6	2.1	29	30%	Pass	
Benz(a)anthracene	S13-De16586	CP	mg/kg	4.4	5.4	21	30%	Pass	
Benzo(a)pyrene	S13-De16586	CP	mg/kg	4.6	5.1	12	30%	Pass	
Benzo(b&j)fluoranthene	S13-De16586	CP	mg/kg	4.0	5.2	24	30%	Pass	

Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Benzo(g.h.i)perylene	S13-De16586	CP	mg/kg	2.3	2.5	10	30%	Pass	
Benzo(k)fluoranthene	S13-De16586	CP	mg/kg	2.7	2.9	9.0	30%	Pass	
Chrysene	S13-De16586	CP	mg/kg	3.9	4.7	17	30%	Pass	
Dibenz(a.h)anthracene	S13-De16586	CP	mg/kg	0.6	0.7	17	30%	Pass	
Fluoranthene	S13-De16586	CP	mg/kg	8.1	10	24	30%	Pass	
Fluorene	S13-De16586	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S13-De16586	CP	mg/kg	2.0	2.2	9.0	30%	Pass	
Naphthalene	S13-De16586	CP	mg/kg	< 0.5	0.8	80	30%	Fail	Q15
Phenanthrene	S13-De16586	CP	mg/kg	5.7	7.6	29	30%	Pass	
Pyrene	S13-De16586	CP	mg/kg	8.1	10	23	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Conductivity (1:5 aqueous extract at 25°C)	S13-De15468	NCP	uS/cm	87	96	10	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S13-De16586	CP	mg/kg	< 2	3.0	130	30%	Fail	Q15
Cadmium	S13-De16586	CP	mg/kg	1.9	1.8	9.0	30%	Pass	
Chromium	S13-De16586	CP	mg/kg	19	14	34	30%	Fail	Q15
Copper	S13-De16872	NCP	mg/kg	19	20	7.0	30%	Pass	
Lead	S13-De16586	CP	mg/kg	570	480	17	30%	Pass	
Mercury	S13-De16586	CP	mg/kg	0.56	0.65	15	30%	Pass	
Nickel	S13-De16586	CP	mg/kg	12	11	10	30%	Pass	
Zinc	S13-De16586	CP	mg/kg	470	420	11	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S13-De16593	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S13-De16593	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S13-De16593	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S13-De16593	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	S13-De16593	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S13-De16593	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	S13-De16593	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-BHC	S13-De16593	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S13-De16593	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S13-De16593	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S13-De16593	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S13-De16593	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S13-De16593	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S13-De16593	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S13-De16593	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	S13-De16593	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S13-De16593	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S13-De16593	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S13-De16593	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S13-De16593	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Toxaphene	S13-De16593	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S13-De16613	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S13-De16613	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S13-De16613	CP	mg/kg	81	77	5.0	30%	Pass	
TRH C29-C36	S13-De16613	CP	mg/kg	140	160	15	30%	Pass	

Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S13-De16613	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S13-De16613	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S13-De16613	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S13-De16613	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S13-De16613	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total	S13-De16613	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S13-De16613	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S13-De16613	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S13-De16613	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S13-De16613	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S13-De16613	CP	mg/kg	220	240	6.0	30%	Pass	
TRH >C34-C40	S13-De16613	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S13-De16613	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S13-De16613	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S13-De16613	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S13-De16613	CP	mg/kg	1.1	1.1	3.0	30%	Pass	
Benzo(a)pyrene	S13-De16613	CP	mg/kg	1.2	1.3	3.0	30%	Pass	
Benzo(b&j)fluoranthene	S13-De16613	CP	mg/kg	0.8	1.3	53	30%	Fail	Q15
Benzo(g.h.i)perylene	S13-De16613	CP	mg/kg	0.8	0.9	8.0	30%	Pass	
Benzo(k)fluoranthene	S13-De16613	CP	mg/kg	0.8	0.8	5.0	30%	Pass	
Chrysene	S13-De16613	CP	mg/kg	0.9	0.9	3.0	30%	Pass	
Dibenz(a.h)anthracene	S13-De16613	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S13-De16613	CP	mg/kg	2.0	2.0	1.0	30%	Pass	
Fluorene	S13-De16613	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S13-De16613	CP	mg/kg	0.7	0.7	7.0	30%	Pass	
Naphthalene	S13-De16613	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S13-De16613	CP	mg/kg	1.0	1.3	23	30%	Pass	
Pyrene	S13-De16613	CP	mg/kg	1.9	1.8	3.0	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q15	The RPD reported passes Eurofins | mgt's Acceptance Criteria as stipulated in SOP 05. Refer to Glossary Page of this report for further details

Authorised By

Jean Heng	Client Services
Bob Symons	Senior Analyst-Inorganic (NSW)
James Norford	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)
Ryan Hamilton	Senior Analyst-Volatile (NSW)

Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

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eurofins | mgt
Unit F3-F6 Building F, Parkview Building
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NSW 2066

CHAIN OF CUSTODY

#403941

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square
SEND REPORT TO: J.R&N.C SEND INVOICE TO: Grace NG
DATE NEEDED BY: STAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: S. Snaiderman
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: jrosner@jbsg.com.au nlussen@jbsg.com.au

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	JB1	JB1T	JB1A	JB2	JB2A	B10	JB2/JBL	JB3/JBL	JB4	JBL
FC059-0.0-0.1	SOIL	17/12/13		Jar + ICE											
FC059_0.5															
FC059-1.0															
FC059-2.0-2.1															
FC059-3.0-3.1															
FC060-0.0-0.1															
FC060-0.5															
FC060-1.0															
FC060-2.0-2.1															
FC060_3.0-3.1															
FC060-4.0-4.1															
FC061-0.0-0.1															
FC061_0.5m															
FC061-1.0															
FC061-2.0-2.1															
FC061_3.0-3.1															
FC061-4.0-4.1															
FC061_5.0-5.1															
FC058-0.0-0.1															

NOTES:
Analysis will be received tonight
Please chell samples

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 17/12/13	CONSIGNMENT NOTE NO.	NAME: Ekmeng DATE: 17/12/13	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	OF: ETM mgt 15.30	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO Forms013 – Chain of Custody - eurofins mgt

JB1 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1T - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos
JB2 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
B10 - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2/JBL - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)
JB3/JBL - TRH/BTEX/PAH/OCP/OPP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)/Asbestos
JB4 - TRH/BTEX/VOC
JBL - TCLP(PAH & 6 Metals)

eurofins | mgt
Unit F3-F6 Building F, Parkview Building
16 Mars Road, Lane Cove West
NSW 2066

CHAIN OF CUSTODY

#403941

JBS&G

PROJECT NO.: 43182	LABORATORY BATCH NO.:
PROJECT NAME: Green Square	SAMPLERS: B. Shnaiderman
SEND REPORT TO: J.R&N.C SEND INVOICE TO: Grace NG	PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: jvosnerc@jbsg.com.au, ncusack@jbsg.com.au, tomack
DATE NEEDED BY: STAT	QC LEVEL: NEPM (2013)
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:	

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	JB1	JB1T	JB1A	JB2	JB2A	B10	JB2/JBL	JB3/JBL	JB4	JBL	NOTES:
FCOS8-0.5	SOIL	12/12		Jar + VE												Analysis will not received tonight. Please check samples
FCOS8-1.0																
FCOS8-2.0-2.1																
FCOS8-3.0-3.1																
FCOS8-4.0-4.1																
FCOS8-5.0-5.1																
FCOS7-0.0-0.1																
FCOS7-0.5																
FCOS7-1.0																
FCOS7.2-0-2.1																
FCOS7-3.0-3.1																
FCOS7-4.0-4.1																
FCOS7-5.0-5.1																
QC02																
QC03																
RINSATE	WATER			Plastic, vials, ambers HE												
TRIP SPIKE				Vials												
TRIP BLANK				Vials												

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: B. DATE: 17/12/13	CONSIGNMENT NOTE NO.	NAME: Elen NG 17/12/13	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: OF: EF/mgt 15.30	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody – eurofins mgt

JB1 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1T - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos
JB2 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
B10 - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2/JBL - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)
JB3/JBL - TRH/BTEX/PAH/OCP/OPP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)/Asbestos
JB4 - TRH/BTEX/VOC
JBL - TCLP(PAH & 6 Metals)

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Unit F3-F6 Building F, Parkview Building
16 Mars Road, Lane Cove West
NSW 2066

CHAIN OF CUSTODY #403941

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square
SEND REPORT TO: JRPNG SEND INVOICE TO: GraceNG
DATE NEEDED BY: STAT (8)
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: B. Shanderman
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: jrose@jbsgroup.com.au

QC LEVEL: NEPM (2013)

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	JB1	JB1T	JB1A	JB2	JB2A	B10	JB2/JBL	JB3/JBL	JB4	JBL	8 Metals	TRH	BTEX	PAH	EC	pH					NOTES:
FC059-0.0-0.1	Soil	19/12		Jar + ICE																						(*) Please analysis on stat with results reported before COB 24/12/13.
FC059-0.5																x	x	x	x	x	x					
FC059-1.0																x	x	x	x	x	x					
FC059-2.0-2.1																										
FC059-3.0-3.1																										
FC058-0.0-0.1																										
FC058-0.5									X																	
FC058-1.0																										
FC058-2.0-2.1																										
FC058-3.0-3.1																										
FC058-4.0-4.1																										
FC058-5.0-5.1																x	x	x	x							to ensure TCLP can be scheduled in holding time if required with lead.
FC057-0.0-0.1									X																	
FC057-0.5																										
FC057-1.0																										
FC057-2.0-2.1																										
FC057-3.0-3.1																x	x	x	x							
FC057-4.0-4.1																										
FC057-5.0-5.1																										

RELINQUISHED BY:
NAME: B. L DATE: 17/12/13
OF: JBS&G

METHOD OF SHIPMENT:
CONSIGNMENT NOTE NO.
TRANSPORT CO.

RECEIVED BY:
NAME: Ellen NG DATE: 17/12/13
OF: EFI mgt 15:35

FOR RECEIVING LAB USE ONLY:
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C

NAME: DATE:
OF:

CONSIGNMENT NOTE NO.
TRANSPORT CO

NAME: DATE: 17.35
OF:

COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody – eurofins mgt

JB1 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1T - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos
JB2 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
B10 - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2/JBL - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)
JB3/JBL - TRH/BTEX/PAH/OCP/OPP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)/Asbestos
JB4 - TRH/BTEX/VOC
JBL - TCLP(PAH & 6 Metals)

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Unit F3-F6 Building F, Parkview Building
16 Mars Road, Lane Cove West
NSW 2066

CHAIN OF CUSTODY

#403941

JBS&G

PROJECT NO.:	LB1812
PROJECT NAME:	Green Square
SEND REPORT TO:	R. J & N. C SEND INVOICE TO: Erce NG
DATE NEEDED BY:	STAT (A)
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:	

LABORATORY BATCH NO.:
SAMPLERS: B. Swaiderman
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: rosner@jbsg.com.au / mcrosser@jbsg.com.au
QC LEVEL: NEPM (2013)

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	JB1	JB1T	JB1A	JB2	JB2A	B10	JB2/JBL	JB3/JBL	JB4	JBL	8 Metals	TRH	PAH	BTEX	PH	CEC					NOTES:
FC060-0.0-0.1	Soil	17/12		Jar + ICE												x	x	x	x							
FC060-0.5	↓	↓		↓																						
FC060-1.0-1.1																x	x	x	x							
FC060-2.0-2.1									x																	
FC060-3.0-3.1																x	x	x	x							
FC060-4.0-4.1																										
FC061-0.0-0.1																										
FC061-0.5																										
FC061-1.0									x																	
FC061-2.0-2.1																										
FC061-3.0-3.1																x	x	x	x							
FC061-4.0-4.1																										
FC061-5.0-5.1																										
QC02									x																	
QC03	↓			↓																						
Rinsate	Water			plastic, vials, amber ice												x	x	x	x							
Trip Spike	↓			vials + ICE															x							
Trip Blank	↓	↓		vials + ICE															x							

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 17/12/17	CONSIGNMENT NO.	NAME: Elkenng 171213	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: OF: EPImgt ~~15:35~~	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NO.	NAME: DATE: 17.35	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - eurofins mgt

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JB1T - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos
JB2 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
B10 - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2/JBL - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)
JB3/JBL - TRH/BTEX/PAH/OCP/OPP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)/Asbestos
JB4 - TRH/BTEX/VOC
JBL - TCLP(PAH & 6 Metals)

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ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

Melbourne
3-5 Kingston Town Close
Oakleigh VIC 3166
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F6, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: GREEN SQUARE 43182

Order No.:
Report #: 403832
Phone: 02 8245 0300
Fax:

Received: Dec 17, 2013 11:15 AM
Due: Dec 24, 2013
Priority: 5 Day
Contact Name: Joanne Rosner

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Total Recoverable Hydrocarbons	JBS&G Suite 2
Laboratory where analysis is conducted													
Melbourne Laboratory - NATA Site # 1254 & 14271													
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794													
External Laboratory													
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**									
FCO53_0.0-0.1	Dec 16, 2013		Soil	S13-De15455	X								X
FCO53_0.5-0.6	Dec 16, 2013		Soil	S13-De15456			X						
FCO53_1.0-1.1	Dec 16, 2013		Soil	S13-De15457			X						
FCO53_1.5-1.6	Dec 16, 2013		Soil	S13-De15458			X						
FCO53_2.0-2.1	Dec 16, 2013		Soil	S13-De15459	X				X	X	X	X	
FCO53_2.5-2.6	Dec 16, 2013		Soil	S13-De15460			X						
FCO54_0.0-0.1	Dec 16, 2013		Soil	S13-De15461			X						
FCO54_0.5	Dec 16, 2013		Soil	S13-De15462	X								X
FCO54_1.0	Dec 16, 2013		Soil	S13-De15463	X	X		X	X	X	X	X	
FCO54_2.0-2.1	Dec 16, 2013		Soil	S13-De15464			X						

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Order No.:
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Received: Dec 17, 2013 11:15 AM
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Contact Name: Joanne Rosner

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Total Recoverable Hydrocarbons	JBS&G Suite 2
Laboratory where analysis is conducted													
Melbourne Laboratory - NATA Site # 1254 & 14271													
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794													
External Laboratory													
FCO54_3.0-3.1	Dec 16, 2013		Soil	S13-De15465			X						
FCO55_0.0-0.1	Dec 16, 2013		Soil	S13-De15466	X								X
FCO55_0.5	Dec 16, 2013		Soil	S13-De15467			X						
FCO55_1.0	Dec 16, 2013		Soil	S13-De15468	X	X		X	X	X	X	X	
FCO55_2.0-2.1	Dec 16, 2013		Soil	S13-De15469			X						
FCO55_3.0-3.1	Dec 16, 2013		Soil	S13-De15470			X						
FCO55_4.0-4.1	Dec 16, 2013		Soil	S13-De15471	X								X
FCO55_5.0-5.1	Dec 16, 2013		Soil	S13-De15472			X						
FCO56_0.0-0.1	Dec 16, 2013		Soil	S13-De15473			X						
FCO56_0.5	Dec 16, 2013		Soil	S13-De15474			X						
FCO56_1.0	Dec 16, 2013		Soil	S13-De15475			X						

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ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

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Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: GREEN SQUARE 43182

Order No.:
Report #: 403832
Phone: 02 8245 0300
Fax:

Received: Dec 17, 2013 11:15 AM
Due: Dec 24, 2013
Priority: 5 Day
Contact Name: Joanne Rosner

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Total Recoverable Hydrocarbons	JBS&G Suite 2
Laboratory where analysis is conducted													
Melbourne Laboratory - NATA Site # 1254 & 14271													
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794													
External Laboratory													
FCO56_2.0-2.1	Dec 16, 2013		Soil	S13-De15476	X				X	X	X	X	
FCO56_3.0-3.1	Dec 16, 2013		Soil	S13-De15477	X				X	X	X	X	
TRIPSPIKE	Dec 16, 2013		Water	S13-De15478							X		
TRIPBLANK	Dec 16, 2013		Water	S13-De15479							X		
RINSATE	Dec 16, 2013		Water	S13-De15480					X	X	X	X	
QC01	Dec 16, 2013		Soil	S13-De15481	X								X

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ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

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NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Sample Receipt Advice

Company name: **JBS & G (NSW & WA) Pty Ltd**

Contact name: Joanne Rosner
Client job number: GREEN SQUARE 43182
COC number: Not provided
Turn around time: 5 Day
Date/Time received: Dec 17, 2013 11:15 AM
Eurofins | mgt reference: **403832**

Sample information

☑ A detailed list of analytes logged into our LIMS, is included in the attached summary table.

☑ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt Sample Receipt : 16.5 degrees Celsius.

☑ All samples have been received as described on the above COC.

☑ COC has been completed correctly.

☑ Attempt to chill was evident.

☑ Appropriately preserved sample containers have been used.

☑ All samples were received in good condition.

☑ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.

☑ Organic samples had Teflon liners.

☑ Sample containers for volatile analysis received with zero headspace.

☒ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Contact notes

If you have any questions with respect to these samples please contact:

Jean Heng on Phone : (+61) (2) 9900 8400 or by e.mail: JeanHeng@eurofins.com.au

Results will be delivered electronically via e.mail to Joanne Rosner - jrosner@jbsg.com.au.

Eurofins | mgt Sample Receipt

eurofins | mgt

Certificate of Analysis

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Joanne Rosner**

Report **403832-W**
Client Reference GREEN SQUARE 43182
Received Date Dec 17, 2013

Client Sample ID **Sample Matrix** **Eurofins | mgt Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**TRIPSPIKE** **Water** **S13-De15478** **Dec 16, 2013**	**TRIPBLANK** **Water** **S13-De15479** **Dec 16, 2013**	**RINSATE** **Water** **S13-De15480** **Dec 16, 2013**
Total Recoverable Hydrocarbons - 1999 NEPM Fractions					
TRH C6-C9	0.02	mg/L	-	-	< 0.02
TRH C10-C14	0.05	mg/L	-	-	< 0.05
TRH C15-C28	0.1	mg/L	-	-	< 0.1
TRH C29-C36	0.1	mg/L	-	-	< 0.1
TRH C10-36 (Total)	0.1	mg/L	-	-	< 0.1
BTEX					
Benzene	0.001	mg/L	105%	< 0.001	< 0.001
Toluene	0.001	mg/L	96%	< 0.001	< 0.001
Ethylbenzene	0.001	mg/L	103%	< 0.001	< 0.001
m&p-Xylenes	0.002	mg/L	106%	< 0.002	< 0.002
o-Xylene	0.001	mg/L	103%	< 0.001	< 0.001
Xylenes - Total	0.003	mg/L	105%	< 0.003	< 0.003
4-Bromofluorobenzene (surr.)	1	%	96	80	79
Total Recoverable Hydrocarbons - 2013 NEPM Fractions					
Naphthalene[N02]	0.02	mg/L	-	-	< 0.02
TRH C6-C10	0.02	mg/L	-	-	< 0.02
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	-	-	< 0.02
TRH >C10-C16	0.05	mg/L	-	-	< 0.05
TRH >C10-C16 less Naphthalene (F2)[N01]	0.05	mg/L	-	-	< 0.05
TRH >C16-C34	0.1	mg/L	-	-	< 0.1
TRH >C34-C40	0.1	mg/L	-	-	< 0.1
Polycyclic Aromatic Hydrocarbons					
Acenaphthene	0.001	mg/L	-	-	< 0.001
Acenaphthylene	0.001	mg/L	-	-	< 0.001
Anthracene	0.001	mg/L	-	-	< 0.001
Benz(a)anthracene	0.001	mg/L	-	-	< 0.001
Benzo(a)pyrene	0.001	mg/L	-	-	< 0.001
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	-	-	< 0.001
Benzo(g.h.i)perylene	0.001	mg/L	-	-	< 0.001
Benzo(k)fluoranthene	0.001	mg/L	-	-	< 0.001
Chrysene	0.001	mg/L	-	-	< 0.001
Dibenz(a.h)anthracene	0.001	mg/L	-	-	< 0.001
Fluoranthene	0.001	mg/L	-	-	< 0.001
Fluorene	0.001	mg/L	-	-	< 0.001
Indeno(1.2.3-cd)pyrene	0.001	mg/L	-	-	< 0.001
Naphthalene	0.001	mg/L	-	-	< 0.001

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	TRIPSPIKE Water S13-De15478 Dec 16, 2013	TRIPBLANK Water S13-De15479 Dec 16, 2013	RINSATE Water S13-De15480 Dec 16, 2013
Polycyclic Aromatic Hydrocarbons					
Phenanthrene	0.001	mg/L	-	-	< 0.001
Pyrene	0.001	mg/L	-	-	< 0.001
Total PAH	0.001	mg/L	-	-	< 0.001
2-Fluorobiphenyl (surr.)	1	%	-	-	94
p-Terphenyl-d14 (surr.)	1	%	-	-	116
Heavy Metals					
Arsenic	0.005	mg/L	-	-	< 0.005
Cadmium	0.0005	mg/L	-	-	< 0.0005
Chromium	0.005	mg/L	-	-	< 0.005
Copper	0.005	mg/L	-	-	< 0.005
Lead	0.005	mg/L	-	-	< 0.005
Mercury	0.0001	mg/L	-	-	< 0.0001
Nickel	0.005	mg/L	-	-	< 0.005
Zinc	0.005	mg/L	-	-	< 0.005

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Dec 17, 2013	7 Day
- Method: E004 Petroleum Hydrocarbons (TPH)			
BTEX	Sydney	Dec 17, 2013	14 Day
- Method: E029/E016 BTEX			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Dec 17, 2013	7 Day
- Method: LM-LTM-ORG2010			
Polycyclic Aromatic Hydrocarbons	Sydney	Dec 17, 2013	7 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Metals M8	Sydney	Dec 17, 2013	28 Day
- Method: E022/E030 Unfiltered Metals in Water & E026 Mercury			

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Site # 1254 & 14271

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NATA # 1261 Site # 18217

Brisbane
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Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: GREEN SQUARE 43182

Order No.:
Report #: 403832
Phone: 02 8245 0300
Fax:

Received: Dec 17, 2013 11:15 AM
Due: Dec 24, 2013
Priority: 5 Day
Contact Name: Joanne Rosner

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Total Recoverable Hydrocarbons	JBS&G Suite 2
Laboratory where analysis is conducted													
Melbourne Laboratory - NATA Site # 1254 & 14271													
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794													
External Laboratory													
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**									
FCO53_0.0-0.1	Dec 16, 2013		Soil	S13-De15455	X								X
FCO53_0.5-0.6	Dec 16, 2013		Soil	S13-De15456			X						
FCO53_1.0-1.1	Dec 16, 2013		Soil	S13-De15457			X						
FCO53_1.5-1.6	Dec 16, 2013		Soil	S13-De15458			X						
FCO53_2.0-2.1	Dec 16, 2013		Soil	S13-De15459	X				X	X	X	X	
FCO53_2.5-2.6	Dec 16, 2013		Soil	S13-De15460			X						
FCO54_0.0-0.1	Dec 16, 2013		Soil	S13-De15461			X						
FCO54_0.5	Dec 16, 2013		Soil	S13-De15462	X								X
FCO54_1.0	Dec 16, 2013		Soil	S13-De15463	X	X		X	X	X	X	X	
FCO54_2.0-2.1	Dec 16, 2013		Soil	S13-De15464			X						

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Laboratory where analysis is conducted													
Melbourne Laboratory - NATA Site # 1254 & 14271													
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794													
External Laboratory													
FCO54_3.0-3.1	Dec 16, 2013		Soil	S13-De15465			X						
FCO55_0.0-0.1	Dec 16, 2013		Soil	S13-De15466	X								X
FCO55_0.5	Dec 16, 2013		Soil	S13-De15467			X						
FCO55_1.0	Dec 16, 2013		Soil	S13-De15468	X	X		X	X	X	X	X	
FCO55_2.0-2.1	Dec 16, 2013		Soil	S13-De15469			X						
FCO55_3.0-3.1	Dec 16, 2013		Soil	S13-De15470			X						
FCO55_4.0-4.1	Dec 16, 2013		Soil	S13-De15471	X								X
FCO55_5.0-5.1	Dec 16, 2013		Soil	S13-De15472			X						
FCO56_0.0-0.1	Dec 16, 2013		Soil	S13-De15473			X						
FCO56_0.5	Dec 16, 2013		Soil	S13-De15474			X						
FCO56_1.0	Dec 16, 2013		Soil	S13-De15475			X						

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Laboratory where analysis is conducted													
Melbourne Laboratory - NATA Site # 1254 & 14271													
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794													
External Laboratory													
FCO56_2.0-2.1	Dec 16, 2013		Soil	S13-De15476	X				X	X	X	X	
FCO56_3.0-3.1	Dec 16, 2013		Soil	S13-De15477	X				X	X	X	X	
TRIPSPIKE	Dec 16, 2013		Water	S13-De15478							X		
TRIPBLANK	Dec 16, 2013		Water	S13-De15479							X		
RINSATE	Dec 16, 2013		Water	S13-De15480					X	X	X	X	
QC01	Dec 16, 2013		Soil	S13-De15481	X								X

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/L	< 0.02			0.02	Pass	
TRH C10-C14	mg/L	< 0.05			0.05	Pass	
TRH C15-C28	mg/L	< 0.1			0.1	Pass	
TRH C29-C36	mg/L	< 0.1			0.1	Pass	
Method Blank							
BTEX							
Benzene	mg/L	< 0.001			0.001	Pass	
Toluene	mg/L	< 0.001			0.001	Pass	
Ethylbenzene	mg/L	< 0.001			0.001	Pass	
m&p-Xylenes	mg/L	< 0.002			0.002	Pass	
o-Xylene	mg/L	< 0.001			0.001	Pass	
Xylenes - Total	mg/L	< 0.003			0.003	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/L	< 0.02			0.02	Pass	
TRH C6-C10	mg/L	< 0.02			0.02	Pass	
TRH C6-C10 less BTEX (F1)	mg/L	< 0.02			0.02	Pass	
TRH >C10-C16	mg/L	< 0.05			0.05	Pass	
TRH >C16-C34	mg/L	< 0.1			0.1	Pass	
TRH >C34-C40	mg/L	< 0.1			0.1	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/L	< 0.001			0.001	Pass	
Acenaphthylene	mg/L	< 0.001			0.001	Pass	
Anthracene	mg/L	< 0.001			0.001	Pass	
Benz(a)anthracene	mg/L	< 0.001			0.001	Pass	
Benzo(a)pyrene	mg/L	< 0.001			0.001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.001			0.001	Pass	
Benzo(g.h.i)perylene	mg/L	< 0.001			0.001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.001			0.001	Pass	
Chrysene	mg/L	< 0.001			0.001	Pass	
Dibenz(a.h)anthracene	mg/L	< 0.001			0.001	Pass	
Fluoranthene	mg/L	< 0.001			0.001	Pass	
Fluorene	mg/L	< 0.001			0.001	Pass	
Indeno(1.2.3-cd)pyrene	mg/L	< 0.001			0.001	Pass	
Naphthalene	mg/L	< 0.001			0.001	Pass	
Phenanthrene	mg/L	< 0.001			0.001	Pass	
Pyrene	mg/L	< 0.001			0.001	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.005			0.005	Pass	
Cadmium	mg/L	< 0.0005			0.0005	Pass	
Chromium	mg/L	< 0.005			0.005	Pass	
Copper	mg/L	< 0.005			0.005	Pass	
Lead	mg/L	< 0.005			0.005	Pass	
Mercury	mg/L	< 0.0001			0.0001	Pass	
Nickel	mg/L	< 0.005			0.005	Pass	
Zinc	mg/L	< 0.005			0.005	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
TRH C6-C9	%	116			70-130	Pass	
TRH C10-C14	%	83			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	103			70-130	Pass	
Toluene	%	101			70-130	Pass	
Ethylbenzene	%	110			70-130	Pass	
m&p-Xylenes	%	115			70-130	Pass	
o-Xylene	%	112			70-130	Pass	
Xylenes - Total	%	114			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	88			70-130	Pass	
TRH C6-C10	%	130			70-130	Pass	
TRH >C10-C16	%	87			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	123			70-130	Pass	
Acenaphthylene	%	114			70-130	Pass	
Anthracene	%	118			70-130	Pass	
Benz(a)anthracene	%	103			70-130	Pass	
Benzo(a)pyrene	%	125			70-130	Pass	
Benzo(b&j)fluoranthene	%	114			70-130	Pass	
Benzo(g.h.i)perylene	%	110			70-130	Pass	
Benzo(k)fluoranthene	%	123			70-130	Pass	
Chrysene	%	120			70-130	Pass	
Dibenz(a.h)anthracene	%	97			70-130	Pass	
Fluoranthene	%	120			70-130	Pass	
Fluorene	%	124			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	103			70-130	Pass	
Naphthalene	%	117			70-130	Pass	
Phenanthrene	%	118			70-130	Pass	
Pyrene	%	125			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	99			70-130	Pass	
Cadmium	%	98			70-130	Pass	
Chromium	%	102			70-130	Pass	
Copper	%	97			70-130	Pass	
Lead	%	93			70-130	Pass	
Mercury	%	101			70-130	Pass	
Nickel	%	99			70-130	Pass	
Zinc	%	95			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
BTEX				Result 1					
Benzene	S13-De15162	NCP	%	106			70-130	Pass	
Toluene	S13-De15162	NCP	%	104			70-130	Pass	
Ethylbenzene	S13-De15162	NCP	%	108			70-130	Pass	
m&p-Xylenes	S13-De15162	NCP	%	115			70-130	Pass	
o-Xylene	S13-De15162	NCP	%	115			70-130	Pass	
Xylenes - Total	S13-De15162	NCP	%	115			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
TRH C6-C9	S13-De15162	NCP	%	95			70-130	Pass	
TRH C10-C14	S13-De10828	NCP	%	99			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S13-De15162	NCP	%	100			70-130	Pass	
TRH C6-C10	S13-De15162	NCP	%	98			70-130	Pass	
TRH >C10-C16	S13-De10828	NCP	%	103			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S13-De13488	NCP	%	130			70-130	Pass	
Acenaphthylene	S13-De13488	NCP	%	114			70-130	Pass	
Anthracene	S13-De13488	NCP	%	126			70-130	Pass	
Benz(a)anthracene	S13-De13488	NCP	%	129			70-130	Pass	
Benzo(a)pyrene	S13-De13488	NCP	%	128			70-130	Pass	
Benzo(b&j)fluoranthene	S13-De13488	NCP	%	129			70-130	Pass	
Benzo(g.h.i)perylene	S13-De13488	NCP	%	111			70-130	Pass	
Benzo(k)fluoranthene	S13-De13488	NCP	%	123			70-130	Pass	
Chrysene	S13-De13488	NCP	%	128			70-130	Pass	
Dibenz(a.h)anthracene	S13-De13488	NCP	%	113			70-130	Pass	
Fluoranthene	S13-De13488	NCP	%	125			70-130	Pass	
Fluorene	S13-De13488	NCP	%	129			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S13-De13488	NCP	%	117			70-130	Pass	
Naphthalene	S13-De13488	NCP	%	130			70-130	Pass	
Phenanthrene	S13-De13488	NCP	%	127			70-130	Pass	
Pyrene	S13-De13488	NCP	%	129			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S13-De17261	NCP	%	93			70-130	Pass	
Cadmium	S13-De17261	NCP	%	97			70-130	Pass	
Chromium	S13-De17261	NCP	%	92			70-130	Pass	
Copper	S13-De17261	NCP	%	90			70-130	Pass	
Lead	S13-De17261	NCP	%	87			70-130	Pass	
Mercury	S13-De17261	NCP	%	96			70-130	Pass	
Nickel	S13-De17261	NCP	%	90			70-130	Pass	
Zinc	S13-De17261	NCP	%	88			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S13-De15160	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Toluene	S13-De15160	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Ethylbenzene	S13-De15160	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
m&p-Xylenes	S13-De15160	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
o-Xylene	S13-De15160	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Xylenes - Total	S13-De15160	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S13-De15160	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH C10-C14	S13-De13487	NCP	mg/L	0.10	0.14	33	30%	Fail	Q15
TRH C15-C28	S13-De13487	NCP	mg/L	0.40	0.50	14	30%	Pass	
TRH C29-C36	S13-De13487	NCP	mg/L	0.30	0.30	7.0	30%	Pass	

Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S13-De15160	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH C6-C10	S13-De15160	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S13-De15160	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH >C10-C16	S13-De13487	NCP	mg/L	0.11	0.16	37	30%	Fail	Q15
TRH >C16-C34	S13-De13487	NCP	mg/L	0.70	0.80	11	30%	Pass	
TRH >C34-C40	S13-De13487	NCP	mg/L	< 0.1	0.10	11	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S13-De13487	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Acenaphthylene	S13-De13487	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Anthracene	S13-De13487	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benz(a)anthracene	S13-De13487	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(a)pyrene	S13-De13487	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(b&j)fluoranthene	S13-De13487	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(g.h.i)perylene	S13-De13487	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(k)fluoranthene	S13-De13487	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chrysene	S13-De13487	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibenz(a.h)anthracene	S13-De13487	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluoranthene	S13-De13487	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluorene	S13-De13487	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S13-De13487	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Naphthalene	S13-De13487	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Phenanthrene	S13-De13487	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Pyrene	S13-De13487	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S13-De17117	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Cadmium	S13-De17117	NCP	mg/L	< 0.0005	< 0.0005	<1	30%	Pass	
Chromium	S13-De17117	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Copper	S13-De17117	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Lead	S13-De17117	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Mercury	S13-De17117	NCP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel	S13-De17117	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Zinc	S13-De17117	NCP	mg/L	0.012	< 0.005	110	30%	Fail	Q15

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q15	The RPD reported passes Eurofins | mgt's Acceptance Criteria as stipulated in SOP 05. Refer to Glossary Page of this report for further details

Authorised By

Jean Heng	Client Services
James Norford	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)
Ryan Hamilton	Senior Analyst-Volatile (NSW)

Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

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eurofins | mgt

Certificate of Analysis

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Joanne Rosner**

Report **403832-S**
Client Reference GREEN SQUARE 43182
Received Date Dec 17, 2013

Client Sample ID **Sample Matrix** **Eurofins | mgt Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**FCO53_0.0-0.1** **Soil** **S13-De15455** **Dec 16, 2013**	**FCO53_2.0-2.1** **Soil** **S13-De15459** **Dec 16, 2013**	**FCO54_0.5** **Soil** **S13-De15462** **Dec 16, 2013**	**FCO54_1.0** **Soil** **S13-De15463** **Dec 16, 2013**
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	71	680	< 50	67
TRH C29-C36	50	mg/kg	83	320	< 50	< 50
TRH C10-36 (Total)	50	mg/kg	150	1000	< 50	67
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	108	87	91	100
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	150	930	< 100	110
TRH >C34-C40	100	mg/kg	< 100	180	< 100	< 100
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	< 0.5	0.9	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	3.2	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	10	< 0.5	0.6
Benz(a)anthracene	0.5	mg/kg	0.9	20	1.0	1.2
Benzo(a)pyrene	0.5	mg/kg	1.1	22	1.4	1.2
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	1.0	17	1.3	1.2
Benzo(g.h.i)perylene	0.5	mg/kg	0.9	14	0.9	0.7
Benzo(k)fluoranthene	0.5	mg/kg	0.8	12	0.9	0.7
Chrysene	0.5	mg/kg	1.0	18	1.2	1.2
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	3.7	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	1.7	40	2.2	2.6
Fluorene	0.5	mg/kg	< 0.5	2.2	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	0.8	13	0.8	0.7
Naphthalene	0.5	mg/kg	< 0.5	0.8	< 0.5	< 0.5

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FCO53_0.0-0.1 Soil S13-De15455 Dec 16, 2013	FCO53_2.0-2.1 Soil S13-De15459 Dec 16, 2013	FCO54_0.5 Soil S13-De15462 Dec 16, 2013	FCO54_1.0 Soil S13-De15463 Dec 16, 2013
Polycyclic Aromatic Hydrocarbons						
Phenanthrene	0.5	mg/kg	0.9	33	1.3	1.7
Pyrene	0.5	mg/kg	1.8	38	2.3	2.5
Total PAH	0.5	mg/kg	11	250	13	14
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	1.5	32	1.8	1.6
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	1.7	32	2.0	1.8
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	2.0	32	2.3	2.1
2-Fluorobiphenyl (surr.)	1	%	88	93	92	95
p-Terphenyl-d14 (surr.)	1	%	88	110	95	98
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	< 0.1	-
4.4'-DDD	0.05	mg/kg	< 0.05	-	< 0.05	-
4.4'-DDE	0.05	mg/kg	< 0.05	-	< 0.05	-
4.4'-DDT	0.05	mg/kg	< 0.05	-	< 0.05	-
a-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
Aldrin	0.05	mg/kg	< 0.05	-	< 0.05	-
b-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
d-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
Dieldrin	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan I	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan II	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin ketone	0.05	mg/kg	< 0.05	-	< 0.05	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	< 0.05	-
Heptachlor	0.05	mg/kg	< 0.05	-	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	< 0.05	-
Methoxychlor	0.2	mg/kg	< 0.2	-	< 0.2	-
Toxaphene	1	mg/kg	< 1	-	< 1	-
Dibutylchlorendate (surr.)	1	%	94	-	93	-
Tetrachloro-m-xylene (surr.)	1	%	87	-	88	-
Polychlorinated Biphenyls (PCB)						
Aroclor-1016	0.5	mg/kg	< 0.5	-	< 0.5	-
Aroclor-1232	0.5	mg/kg	< 0.5	-	< 0.5	-
Aroclor-1242	0.5	mg/kg	< 0.5	-	< 0.5	-
Aroclor-1248	0.5	mg/kg	< 0.5	-	< 0.5	-
Aroclor-1254	0.5	mg/kg	< 0.5	-	< 0.5	-
Aroclor-1260	0.5	mg/kg	< 0.5	-	< 0.5	-
Total PCB	0.5	mg/kg	< 0.5	-	< 0.5	-
Dibutylchlorendate (surr.)	1	%	94	-	93	-
Conductivity (1:5 aqueous extract at 25°C)	5	uS/cm	-	-	-	120
pH (1:5 Aqueous extract)	0.1	units	-	-	-	8.4
% Moisture	0.1	%	8.0	15	10	11

Client Sample ID			FCO53_0.0-0.1	FCO53_2.0-2.1	FCO54_0.5	FCO54_1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			S13-De15455	S13-De15459	S13-De15462	S13-De15463
Date Sampled			Dec 16, 2013	Dec 16, 2013	Dec 16, 2013	Dec 16, 2013
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	4.3	9.0	4.5	3.9
Cadmium	0.4	mg/kg	0.4	0.5	0.8	< 0.4
Chromium	5	mg/kg	9.9	10	7.0	5.9
Copper	5	mg/kg	63	66	38	23
Lead	5	mg/kg	130	200	110	55
Mercury	0.05	mg/kg	0.29	0.53	0.21	0.16
Nickel	5	mg/kg	40	17	33	< 5
Zinc	5	mg/kg	120	170	470	73

Client Sample ID			FCO55_0.0-0.1	FCO55_1.0	FCO55_4.0-4.1	FCO56_2.0-2.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			S13-De15466	S13-De15468	S13-De15471	S13-De15476
Date Sampled			Dec 16, 2013	Dec 16, 2013	Dec 16, 2013	Dec 16, 2013
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	20	< 20	< 20
TRH C15-C28	50	mg/kg	180	3000	760	< 50
TRH C29-C36	50	mg/kg	230	1900	560	< 50
TRH C10-36 (Total)	50	mg/kg	410	4900	1300	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	90	94	87	100
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	82	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	82	< 50	< 50
TRH >C16-C34	100	mg/kg	380	4600	1200	< 100
TRH >C34-C40	100	mg/kg	140	900	270	< 100
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	0.7	9.6	3.0	< 0.5
Anthracene	0.5	mg/kg	1.4	24	6.0	< 0.5
Benz(a)anthracene	0.5	mg/kg	3.2	75	19	< 0.5
Benzo(a)pyrene	0.5	mg/kg	4.6	77	20	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	3.7	78	19	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	4.1	41	15	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	3.3	32	14	< 0.5
Chrysene	0.5	mg/kg	3.3	77	21	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	0.9	13	4.3	< 0.5
Fluoranthene	0.5	mg/kg	4.6	100	22	0.7

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FCO55_0.0-0.1 Soil S13-De15466 Dec 16, 2013	FCO55_1.0 Soil S13-De15468 Dec 16, 2013	FCO55_4.0-4.1 Soil S13-De15471 Dec 16, 2013	FCO56_2.0-2.1 Soil S13-De15476 Dec 16, 2013
Polycyclic Aromatic Hydrocarbons						
Fluorene	0.5	mg/kg	< 0.5	1.7	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	3.4	39	13	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	1.1	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	2.7	19	3.5	< 0.5
Pyrene	0.5	mg/kg	4.3	140	30	0.7
Total PAH	0.5	mg/kg	40	730	190	1.4
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	7.0	110	31	< 0.5
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	7.0	110	31	0.6
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	7.0	110	31	1.2
2-Fluorobiphenyl (surr.)	1	%	93	89	94	92
p-Terphenyl-d14 (surr.)	1	%	95	98	94	95
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	< 0.1	-
4.4'-DDD	0.05	mg/kg	< 0.05	-	< 0.05	-
4.4'-DDE	0.05	mg/kg	< 0.05	-	< 0.05	-
4.4'-DDT	0.05	mg/kg	< 0.05	-	< 0.05	-
a-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
Aldrin	0.05	mg/kg	< 0.05	-	< 0.05	-
b-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
d-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
Dieldrin	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan I	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan II	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin ketone	0.05	mg/kg	< 0.05	-	< 0.05	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	< 0.05	-
Heptachlor	0.05	mg/kg	< 0.05	-	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	< 0.05	-
Methoxychlor	0.2	mg/kg	< 0.2	-	< 0.2	-
Toxaphene	1	mg/kg	< 1	-	< 1	-
Dibutylchlorendate (surr.)	1	%	105	-	110	-
Tetrachloro-m-xylene (surr.)	1	%	103	-	91	-
Polychlorinated Biphenyls (PCB)						
Aroclor-1016	0.5	mg/kg	< 0.5	-	< 0.5	-
Aroclor-1232	0.5	mg/kg	< 0.5	-	< 0.5	-
Aroclor-1242	0.5	mg/kg	< 0.5	-	< 0.5	-
Aroclor-1248	0.5	mg/kg	< 0.5	-	< 0.5	-
Aroclor-1254	0.5	mg/kg	< 0.5	-	< 0.5	-
Aroclor-1260	0.5	mg/kg	< 0.5	-	< 0.5	-
Total PCB	0.5	mg/kg	< 0.5	-	< 0.5	-
Dibutylchlorendate (surr.)	1	%	105	-	110	-
Conductivity (1:5 aqueous extract at 25°C)	5	uS/cm	-	87	-	-
pH (1:5 Aqueous extract)	0.1	units	-	8.5	-	-
% Moisture	0.1	%	30	14	17	14

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FCO55_0.0-0.1 Soil S13-De15466 Dec 16, 2013	FCO55_1.0 Soil S13-De15468 Dec 16, 2013	FCO55_4.0-4.1 Soil S13-De15471 Dec 16, 2013	FCO56_2.0-2.1 Soil S13-De15476 Dec 16, 2013
Heavy Metals						
Arsenic	2	mg/kg	22	5.0	11	12
Cadmium	0.4	mg/kg	2.8	0.7	1.6	< 0.4
Chromium	5	mg/kg	14	7.8	26	< 5
Copper	5	mg/kg	200	78	2700	110
Lead	5	mg/kg	8600	470	1100	250
Mercury	0.05	mg/kg	0.86	1.5	3.3	0.12
Nickel	5	mg/kg	19	12	260	7.8
Zinc	5	mg/kg	1700	270	1300	160

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FCO56_3.0-3.1 Soil S13-De15477 Dec 16, 2013	QC01 Soil S13-De15481 Dec 16, 2013
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				
TRH C6-C9	20	mg/kg	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	580
TRH C29-C36	50	mg/kg	< 50	440
TRH C10-36 (Total)	50	mg/kg	< 50	1000
BTEX				
Benzene	0.1	mg/kg	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1
Xylenes - Total	0.3	mg/kg	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	101	84
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	970
TRH >C34-C40	100	mg/kg	< 100	220
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	1.0
Anthracene	0.5	mg/kg	< 0.5	2.8
Benz(a)anthracene	0.5	mg/kg	1.1	7.7
Benzo(a)pyrene	0.5	mg/kg	1.1	8.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	1.0	7.1
Benzo(g.h.i)perylene	0.5	mg/kg	0.7	5.6
Benzo(k)fluoranthene	0.5	mg/kg	0.7	5.9
Chrysene	0.5	mg/kg	1.0	8.2
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	1.6
Fluoranthene	0.5	mg/kg	2.1	14

Client Sample ID			FCO56_3.0-3.1	QC01
Sample Matrix			Soil	Soil
Eurofins | mgt Sample No.			S13-De15477	S13-De15481
Date Sampled			Dec 16, 2013	Dec 16, 2013
Test/Reference	LOR	Unit		
Polycyclic Aromatic Hydrocarbons				
Fluorene	0.5	mg/kg	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	0.6	5.1
Naphthalene	0.5	mg/kg	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	0.9	7.2
Pyrene	0.5	mg/kg	2.0	14
Total PAH	0.5	mg/kg	11	89
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	1.5	13
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	1.7	13
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	2.0	13
2-Fluorobiphenyl (surr.)	1	%	90	80
p-Terphenyl-d14 (surr.)	1	%	92	86
Organochlorine Pesticides				
Chlordanes - Total	0.1	mg/kg	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	< 0.05
a-BHC	0.05	mg/kg	-	< 0.05
Aldrin	0.05	mg/kg	-	< 0.05
b-BHC	0.05	mg/kg	-	< 0.05
d-BHC	0.05	mg/kg	-	< 0.05
Dieldrin	0.05	mg/kg	-	< 0.05
Endosulfan I	0.05	mg/kg	-	< 0.05
Endosulfan II	0.05	mg/kg	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	< 0.05
Endrin	0.05	mg/kg	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	< 0.05
Endrin ketone	0.05	mg/kg	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	< 0.05
Heptachlor	0.05	mg/kg	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	< 0.05
Methoxychlor	0.2	mg/kg	-	< 0.2
Toxaphene	1	mg/kg	-	< 1
Dibutylchlorendate (surr.)	1	%	-	107
Tetrachloro-m-xylene (surr.)	1	%	-	75
Polychlorinated Biphenyls (PCB)				
Aroclor-1016	0.5	mg/kg	-	< 0.5
Aroclor-1232	0.5	mg/kg	-	< 0.5
Aroclor-1242	0.5	mg/kg	-	< 0.5
Aroclor-1248	0.5	mg/kg	-	< 0.5
Aroclor-1254	0.5	mg/kg	-	< 0.5
Aroclor-1260	0.5	mg/kg	-	< 0.5
Total PCB	0.5	mg/kg	-	< 0.5
Dibutylchlorendate (surr.)	1	%	-	107
% Moisture	0.1	%	16	15

Client Sample ID			FCO56_3.0-3.1	QC01
Sample Matrix			**Soil**	**Soil**
Eurofins | mgt Sample No.			**S13-De15477**	**S13-De15481**
Date Sampled			**Dec 16, 2013**	**Dec 16, 2013**
Test/Reference	LOR	Unit		
Heavy Metals				
Arsenic	2	mg/kg	12	11
Cadmium	0.4	mg/kg	0.4	1.2
Chromium	5	mg/kg	10	26
Copper	5	mg/kg	32	370
Lead	5	mg/kg	90	780
Mercury	0.05	mg/kg	0.38	0.47
Nickel	5	mg/kg	16	35
Zinc	5	mg/kg	140	680

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Dec 17, 2013	14 Day
- Method: E004 Petroleum Hydrocarbons (TPH)			
BTEX	Sydney	Dec 17, 2013	14 Day
- Method: E029/E016 BTEX			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Dec 17, 2013	14 Day
- Method: LM-LTM-ORG2010			
Polycyclic Aromatic Hydrocarbons	Sydney	Dec 17, 2013	14 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Organochlorine Pesticides	Sydney	Dec 18, 2013	14 Day
- Method: E013 Organochlorine Pesticides (OC)			
Polychlorinated Biphenyls (PCB)	Sydney	Dec 18, 2013	28 Day
- Method: E013 Polychlorinated Biphenyls (PCB)			
Metals M8	Sydney	Dec 17, 2013	28 Day
- Method: E022 Acid Extractable metals in Soils & E026 Mercury			
Conductivity (1:5 aqueous extract at 25°C)	Sydney	Dec 18, 2013	7 Day
- Method: E032.2 Electrical Conductivity (EC)			
pH (1:5 Aqueous extract)	Sydney	Dec 18, 2013	7 Day
- Method: E018.2 pH			
% Moisture	Sydney	Dec 17, 2013	28 Day
- Method: E005 Moisture Content			

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Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
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Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: GREEN SQUARE 43182

Order No.:
Report #: 403832
Phone: 02 8245 0300
Fax:

Received: Dec 17, 2013 11:15 AM
Due: Dec 24, 2013
Priority: 5 Day
Contact Name: Joanne Rosner

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Total Recoverable Hydrocarbons	JBS&G Suite 2
Laboratory where analysis is conducted													
Melbourne Laboratory - NATA Site # 1254 & 14271													
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794													
External Laboratory													
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**									
FCO53_0.0-0.1	Dec 16, 2013		Soil	S13-De15455	X								X
FCO53_0.5-0.6	Dec 16, 2013		Soil	S13-De15456			X						
FCO53_1.0-1.1	Dec 16, 2013		Soil	S13-De15457			X						
FCO53_1.5-1.6	Dec 16, 2013		Soil	S13-De15458			X						
FCO53_2.0-2.1	Dec 16, 2013		Soil	S13-De15459	X				X	X	X	X	
FCO53_2.5-2.6	Dec 16, 2013		Soil	S13-De15460			X						
FCO54_0.0-0.1	Dec 16, 2013		Soil	S13-De15461			X						
FCO54_0.5	Dec 16, 2013		Soil	S13-De15462	X								X
FCO54_1.0	Dec 16, 2013		Soil	S13-De15463	X	X		X	X	X	X	X	
FCO54_2.0-2.1	Dec 16, 2013		Soil	S13-De15464			X						

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Laboratory where analysis is conducted													
Melbourne Laboratory - NATA Site # 1254 & 14271													
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794													
External Laboratory													
FCO54_3.0-3.1	Dec 16, 2013		Soil	S13-De15465			X						
FCO55_0.0-0.1	Dec 16, 2013		Soil	S13-De15466	X								X
FCO55_0.5	Dec 16, 2013		Soil	S13-De15467			X						
FCO55_1.0	Dec 16, 2013		Soil	S13-De15468	X	X		X	X	X	X	X	
FCO55_2.0-2.1	Dec 16, 2013		Soil	S13-De15469			X						
FCO55_3.0-3.1	Dec 16, 2013		Soil	S13-De15470			X						
FCO55_4.0-4.1	Dec 16, 2013		Soil	S13-De15471	X								X
FCO55_5.0-5.1	Dec 16, 2013		Soil	S13-De15472			X						
FCO56_0.0-0.1	Dec 16, 2013		Soil	S13-De15473			X						
FCO56_0.5	Dec 16, 2013		Soil	S13-De15474			X						
FCO56_1.0	Dec 16, 2013		Soil	S13-De15475			X						

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Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Total Recoverable Hydrocarbons	JBS&G Suite 2
Laboratory where analysis is conducted													
Melbourne Laboratory - NATA Site # 1254 & 14271													
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794													
External Laboratory													
FCO56_2.0-2.1	Dec 16, 2013		Soil	S13-De15476	X				X	X	X	X	
FCO56_3.0-3.1	Dec 16, 2013		Soil	S13-De15477	X				X	X	X	X	
TRIPSPIKE	Dec 16, 2013		Water	S13-De15478							X		
TRIPBLANK	Dec 16, 2013		Water	S13-De15479							X		
RINSATE	Dec 16, 2013		Water	S13-De15480					X	X	X	X	
QC01	Dec 16, 2013		Soil	S13-De15481	X								X

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH C6-C10 less BTEX (F1)	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-BHC	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-BHC	mg/kg	< 0.05			0.05	Pass	
d-BHC	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-BHC (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.2			0.2	Pass	
Method Blank							
Polychlorinated Biphenyls (PCB)							
Aroclor-1016	mg/kg	< 0.5			0.5	Pass	
Aroclor-1232	mg/kg	< 0.5			0.5	Pass	
Aroclor-1242	mg/kg	< 0.5			0.5	Pass	
Aroclor-1248	mg/kg	< 0.5			0.5	Pass	
Aroclor-1254	mg/kg	< 0.5			0.5	Pass	
Aroclor-1260	mg/kg	< 0.5			0.5	Pass	
Total PCB	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.05			0.05	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	77			70-130	Pass	
TRH C10-C14	%	76			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	101			70-130	Pass	
Toluene	%	92			70-130	Pass	
Ethylbenzene	%	88			70-130	Pass	
m&p-Xylenes	%	94			70-130	Pass	
o-Xylene	%	93			70-130	Pass	
Xylenes - Total	%	94			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	112			70-130	Pass	
TRH C6-C10	%	82			70-130	Pass	
TRH >C10-C16	%	85			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	125			70-130	Pass	
Acenaphthylene	%	118			70-130	Pass	
Anthracene	%	116			70-130	Pass	
Benz(a)anthracene	%	102			70-130	Pass	
Benzo(a)pyrene	%	106			70-130	Pass	
Benzo(b&j)fluoranthene	%	103			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Benzo(g.h.i)perylene	%	116			70-130	Pass	
Benzo(k)fluoranthene	%	116			70-130	Pass	
Chrysene	%	115			70-130	Pass	
Dibenz(a.h)anthracene	%	125			70-130	Pass	
Fluoranthene	%	110			70-130	Pass	
Fluorene	%	128			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	124			70-130	Pass	
Naphthalene	%	118			70-130	Pass	
Phenanthrene	%	113			70-130	Pass	
Pyrene	%	110			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	85			70-130	Pass	
4.4'-DDD	%	96			70-130	Pass	
4.4'-DDE	%	85			70-130	Pass	
4.4'-DDT	%	93			70-130	Pass	
a-BHC	%	89			70-130	Pass	
Aldrin	%	81			70-130	Pass	
b-BHC	%	103			70-130	Pass	
d-BHC	%	102			70-130	Pass	
Dieldrin	%	86			70-130	Pass	
Endosulfan I	%	84			70-130	Pass	
Endosulfan II	%	97			70-130	Pass	
Endosulfan sulphate	%	117			70-130	Pass	
Endrin	%	87			70-130	Pass	
Endrin aldehyde	%	96			70-130	Pass	
Endrin ketone	%	105			70-130	Pass	
g-BHC (Lindane)	%	91			70-130	Pass	
Heptachlor	%	82			70-130	Pass	
Heptachlor epoxide	%	85			70-130	Pass	
Hexachlorobenzene	%	71			70-130	Pass	
Methoxychlor	%	116			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls (PCB)							
Aroclor-1260	%	90			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	101			70-130	Pass	
Cadmium	%	96			70-130	Pass	
Chromium	%	103			70-130	Pass	
Copper	%	101			70-130	Pass	
Lead	%	94			70-130	Pass	
Mercury	%	96			70-130	Pass	
Nickel	%	105			70-130	Pass	
Zinc	%	91			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S13-De15455	CP	%	78			70-130	Pass	
TRH C10-C14	S13-De15455	CP	%	82			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S13-De15455	CP	%	96			70-130	Pass	
Toluene	S13-De15455	CP	%	89			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Ethylbenzene	S13-De15455	CP	%	86			70-130	Pass	
m&p-Xylenes	S13-De15455	CP	%	92			70-130	Pass	
o-Xylene	S13-De15455	CP	%	91			70-130	Pass	
Xylenes - Total	S13-De15455	CP	%	92			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S13-De15455	CP	%	108			70-130	Pass	
TRH C6-C10	S13-De15455	CP	%	86			70-130	Pass	
TRH >C10-C16	S13-De15455	CP	%	90			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S13-De15455	CP	%	114			70-130	Pass	
Acenaphthylene	S13-De15455	CP	%	103			70-130	Pass	
Anthracene	S13-De15455	CP	%	112			70-130	Pass	
Benz(a)anthracene	S13-De15455	CP	%	92			70-130	Pass	
Benzo(a)pyrene	S13-De15455	CP	%	95			70-130	Pass	
Benzo(b&j)fluoranthene	S13-De15455	CP	%	97			70-130	Pass	
Benzo(g.h.i)perylene	S13-De15455	CP	%	106			70-130	Pass	
Benzo(k)fluoranthene	S13-De15455	CP	%	97			70-130	Pass	
Chrysene	S13-De15455	CP	%	103			70-130	Pass	
Dibenz(a.h)anthracene	S13-De15455	CP	%	118			70-130	Pass	
Fluoranthene	S13-De15455	CP	%	93			70-130	Pass	
Fluorene	S13-De15455	CP	%	114			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S13-De15455	CP	%	112			70-130	Pass	
Naphthalene	S13-De15455	CP	%	105			70-130	Pass	
Phenanthrene	S13-De15455	CP	%	101			70-130	Pass	
Pyrene	S13-De15455	CP	%	92			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S13-De15455	CP	%	82			70-130	Pass	
4.4'-DDD	S13-De15455	CP	%	109			70-130	Pass	
4.4'-DDE	S13-De15455	CP	%	87			70-130	Pass	
4.4'-DDT	S13-De15455	CP	%	88			70-130	Pass	
a-BHC	S13-De15455	CP	%	90			70-130	Pass	
Aldrin	S13-De15455	CP	%	84			70-130	Pass	
b-BHC	S13-De15455	CP	%	105			70-130	Pass	
d-BHC	S13-De15455	CP	%	108			70-130	Pass	
Dieldrin	S13-De15455	CP	%	83			70-130	Pass	
Endosulfan I	S13-De15455	CP	%	84			70-130	Pass	
Endosulfan II	S13-De15455	CP	%	88			70-130	Pass	
Endosulfan sulphate	S13-De15455	CP	%	101			70-130	Pass	
Endrin	S13-De15455	CP	%	79			70-130	Pass	
Endrin aldehyde	S13-De15455	CP	%	85			70-130	Pass	
Endrin ketone	S13-De15455	CP	%	88			70-130	Pass	
g-BHC (Lindane)	S13-De15455	CP	%	94			70-130	Pass	
Heptachlor	S13-De15455	CP	%	76			70-130	Pass	
Heptachlor epoxide	S13-De15455	CP	%	83			70-130	Pass	
Hexachlorobenzene	S13-De15455	CP	%	77			70-130	Pass	
Methoxychlor	S13-De15455	CP	%	88			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls (PCB)				Result 1					
Aroclor-1260	S13-De15455	CP	%	83			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Arsenic	S13-De15455	CP	%	94			70-130	Pass	
Cadmium	S13-De15455	CP	%	102			70-130	Pass	
Chromium	S13-De15455	CP	%	107			70-130	Pass	
Copper	S13-De11934	NCP	%	102			70-130	Pass	
Lead	S13-De15455	CP	%	112			70-130	Pass	
Mercury	S13-De15455	CP	%	83			70-130	Pass	
Nickel	S13-De15455	CP	%	117			70-130	Pass	
Zinc	S13-De11934	NCP	%	106			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S13-De15455	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S13-De15455	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S13-De15455	CP	mg/kg	71	71	<1	30%	Pass	
TRH C29-C36	S13-De15455	CP	mg/kg	83	72	14	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S13-De15455	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S13-De15455	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S13-De15455	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S13-De15455	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S13-De15455	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total	S13-De15455	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S13-De15455	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S13-De15455	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S13-De15455	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S13-De15455	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S13-De15455	CP	mg/kg	150	140	10	30%	Pass	
TRH >C34-C40	S13-De15455	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S13-De15455	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S13-De15455	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S13-De15455	CP	mg/kg	< 0.5	0.6	67	30%	Fail	Q15
Benz(a)anthracene	S13-De15455	CP	mg/kg	0.9	1.6	56	30%	Fail	Q15
Benzo(a)pyrene	S13-De15455	CP	mg/kg	1.1	1.8	47	30%	Fail	Q15
Benzo(b&j)fluoranthene	S13-De15455	CP	mg/kg	1.0	1.3	24	30%	Pass	
Benzo(g.h.i)perylene	S13-De15455	CP	mg/kg	0.9	1.4	43	30%	Fail	Q15
Benzo(k)fluoranthene	S13-De15455	CP	mg/kg	0.8	1.2	47	30%	Fail	Q15
Chrysene	S13-De15455	CP	mg/kg	1.0	1.7	55	30%	Fail	Q15
Dibenz(a.h)anthracene	S13-De15455	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S13-De15455	CP	mg/kg	1.7	3.2	65	30%	Fail	Q15
Fluorene	S13-De15455	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S13-De15455	CP	mg/kg	0.8	1.2	45	30%	Fail	Q15
Naphthalene	S13-De15455	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S13-De15455	CP	mg/kg	0.9	2.1	84	30%	Fail	Q15
Pyrene	S13-De15455	CP	mg/kg	1.8	3.3	61	30%	Fail	Q15

Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S13-De15455	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S13-De15455	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S13-De15455	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S13-De15455	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	S13-De15455	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S13-De15455	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	S13-De15455	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-BHC	S13-De15455	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S13-De15455	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S13-De15455	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S13-De15455	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S13-De15455	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S13-De15455	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S13-De15455	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S13-De15455	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	S13-De15455	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S13-De15455	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S13-De15455	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S13-De15455	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S13-De15455	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls (PCB)				Result 1	Result 2	RPD			
Aroclor-1016	S13-De15455	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1232	S13-De15455	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1242	S13-De15455	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1248	S13-De15455	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1254	S13-De15455	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1260	S13-De15455	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S13-De15455	CP	mg/kg	4.3	6.2	36	30%	Fail	
Cadmium	S13-De15455	CP	mg/kg	0.4	0.6	40	30%	Fail	
Chromium	S13-De15455	CP	mg/kg	9.9	11	13	30%	Pass	
Copper	S13-De15455	CP	mg/kg	63	70	10	30%	Pass	
Lead	S13-De15455	CP	mg/kg	130	140	7.0	30%	Pass	
Mercury	S13-De15455	CP	mg/kg	0.29	0.35	19	30%	Pass	
Nickel	S13-De15455	CP	mg/kg	40	38	5.0	30%	Pass	
Zinc	S13-De11934	NCP	mg/kg	70	72	2.0	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Conductivity (1:5 aqueous extract at 25°C)	S13-De15468	CP	uS/cm	87	96	10	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q15	The RPD reported passes Eurofins | mgt's Acceptance Criteria as stipulated in SOP 05. Refer to Glossary Page of this report for further details

Authorised By

Jean Heng	Client Services
Bob Symons	Senior Analyst-Inorganic (NSW)
James Norford	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)
Ryan Hamilton	Senior Analyst-Volatile (NSW)

Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

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Page 1/2

#4038832

eurofins | mgt
Unit F3-F6 Building F, Parkview Building
16 Mars Road, Lane Cove West
NSW 2066

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square
SEND REPORT TO: J.R, N.C SEND INVOICE TO: Grace Nor
DATE NEEDED BY: Standard turn around

LABORATORY BATCH NO.:
SAMPLERS: B.S
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: jrosne@jbsg.com.au nrussell@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	JB1	JB1T	JB1A	JB2	JB2A	B10	JB2/JBL	JB3/JBL	JB4	JBL	8 Metals	TRH	BTEX	PAH	OCP	PCB	pH	EC	NOTES:
FC053-0.0-0.1	SOIL	16/12/13		Jar + ICE					X															
FC053-0.5-0.6																								
FC053-1.0-1.1																								
FC053-1.5-1.6																								
FC053-2.0-2.1																X	X	X	X					
FC053-2.5-2.6																								
FC054-0.0-0.1																								
FC054-0.5									X															
FC054-1.0																X	X	X	X			X	X	
FC054-2.0-2.1																								
FC054-3.0-3.1																								
FC055-0.0-0.1									X															
FC055-0.5																								
FC055-1.0																X	X	X	X			X	X	
FC055-2.0-2.1																								
FC055-3.0-3.1																								
FC055-4.0-4.1									X															
FC055-5.0-5.1																								
FC056-0.0-0.1																								

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: BS DATE: 16/12/13 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C
NAME: DATE: OF:	CONSIGNMENT NOTE NO. TRANSPORT CO	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - eurofins mgt

JB1 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1T - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos
JB2 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
B10 - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2/JBL - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP|PAH & 6 Metals)
JB3/JBL - TRH/BTEX/PAH/OCP/OPP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)/Asbestos
JB4 - TRH/BTEX/VOC
JBL - TCLP(PAH & 6 Metals)

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17 DEC 2013
BY:

eurofins | mgt
Unit F3-F6 Building F, Parkview Building
16 Mars Road, Lane Cove West
NSW 2066

#A038632

JBS&G

CHAIN OF CUSTODY

PROJECT NO.: 43182
PROJECT NAME: Green Square
SEND REPORT TO: J.R & N.C SEND INVOICE TO: Grace NO
DATE NEEDED BY: STAT

LABORATORY BATCH NO.:
SAMPLERS: B. Snoideman
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: jrosner@jbsg.com.au nceusebio@jbsg.com.au

QC LEVEL: NEPM (2013)

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	JB1	JB1T	JB1A	JB2	JB2A	B10	JB2/JBL	JB3/JBL	JB4	JBL	8 Metals	TRH	BTEX	PAH	NOTES:
FC056-0.5	Soil	16/12/13		Jar + ICE																
FC056-1.0	↓	↓		↓																
FC056-2.0-2.1																x	x	x	x	
FC056-3.0-3.1																x	x	x	x	
Trip Spike	Water			Vials + ICE														x		
Trip Blank	↓	↓		Vials + ICE														x		
Rinsate				Vials + bottles +												x	x	x	x	
QC01	Soil	↓		Jar + Ice ICE					x											

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: B DATE: 16/12/13 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C
NAME: DATE: OF:	CONSIGNMENT NOTE NO. TRANSPORT CO	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - eurofins mgt

JB1 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1T - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos
JB2 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
B10 - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2/JBL - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)
JB3/JBL - TRH/BTEX/PAH/OCP/OPP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)/Asbestos
JB4 - TRH/BTEX/VOC
JBL - TCLP(PAH & 6 Metals)

RECEIVED
17 DEC 2013
BY: 1115

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

SAMPLE RECEIPT ADVICE

Client:

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney NSW 2000

ph: 02 8245 0300
Fax: 02 8245 0399

Attention: Joanne Rosner, Nathan Cussens

Sample log in details:

Your reference:	**43182, Green Square**
Envirolab Reference:	**102803**
Date received:	18/12/2013
Date results expected to be reported:	**7/01/14**

Samples received in appropriate condition for analysis:	YES
No. of samples provided	30 Soils
Turnaround time requested:	Standard
Temperature on receipt (°C)	ambient
Cooling Method:	None
Sampling Date Provided:	

Comments:

Samples will be held for 1 month for water samples and 2 months for soil samples from date of receipt of samples.

Contact details:

Please direct any queries to Aileen Hie or Jacinta Hurst
ph: 02 9910 6200 fax: 02 9910 6201
email: ahie@envirolabservices.com.au or jhurst@envirolabservices.com.au

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

CERTIFICATE OF ANALYSIS 102803

Client:
JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention: Joanne Rosner, Nathan Cussens

Sample log in details:

Your Reference:	**43182, Green Square**		
No. of samples:	30 Soils		
Date samples received / completed instructions received	18/12/2013	/	18/12/2013

This report replaces the previous R00 report due to changes in sample depth

Analysis Details:
Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by: / Issue Date:	7/01/14	/	7/01/14
Date of Preliminary Report:	Not Issued		

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Accredited for compliance with ISO/IEC 17025. **Tests not covered by NATA are denoted with *.**

Results Approved By:

Jacinta Hurst
Laboratory Manager

NATA
ACCREDITED FOR TECHNICAL COMPETENCE

Asbestos ID - soils WA						
Our Reference:	UNITS	102803-1	102803-4	102803-9	102803-14	102803-16
Your Reference	----------	FC057	FC057	FC058	FC058	FC059
Depth	----------	0.0-0.1	2.0-2.1	0.5	5.0-5.1	0.5
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	3/01/2014	3/01/2014	3/01/2014	3/01/2014	3/01/2014
Sample mass tested	g	625.76g	535.00g	478.03g	536.48g	528.66g
Sample Description	-	Dark grey ashed soil & debris	Dark grey ashed soil & debris	Dark grey ashed soil & debris	Dark grey ashed soil & debris	Dark grey coarse-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected

Asbestos ID - soils WA						
Our Reference:	UNITS	102803-17	102803-22	102803-23	102803-24	102803-28
Your Reference	----------	FC059	FC060	FC060	FC060	FC061
Depth	----------	1.0	1.0	2.0-2.1	3.0-3.1	1.0
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	3/01/2014	3/01/2014	3/01/2014	3/01/2014	3/01/2014
Sample mass tested	g	384.58g	507.55g	507.21g	484.34g	546.40g
Sample Description	-	Dark grey ashed soil & debris	Dark grey ashed soil & debris	Dark grey ashed soil & debris	Brown coarse-grained soil & rocks	Dark grey ashed soil & debris
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	Chrysotile asbestos detected Amosite asbestos detected	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected

Asbestos ID - soils WA			
Our Reference:	UNITS	102803-30	102803-33
Your Reference	----------	FC061	QC02
Depth	----------	3.0-3.1	-
Type of sample		Soil	Soil
Date analysed	-	3/01/2014	3/01/2014
Sample mass tested	g	618.19g	445.81g
Sample Description	-	Dark grey ashed soil & debris	Dark grey ashed soil & debris
Asbestos ID in soil	-	Chrysotile asbestos detected	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected	No respirable fibres detected

Method ID	Methodology Summary
ASB-003	Asbestos ID - Minimum 500mL soil sample was analysed as recommended by "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.1g/kg as per AS4964-2004.

Report Comments:

This report is consistent with the analytical procedures and reporting recommendations in the Western Australian Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009.

Note: All samples analysed as received. However, samples 102803-9, 17, 22, 23, 24 & 33 are below the minimum 500mL sample volume as per Western Australia's DOH guidelines.

Sample 102803-17; Loose fibre bundles of Chrysotile asbestos identified within the sample (total weight 0.0004g) within the sample (total weight 384.58g), which is calculated as less than the reporting limit for the method (i.e. < 0.1g/kg).

Sample 103208-23; Chrysotile & Amosite asbestos identified in matted material (total weight 12.4352g). It is estimated that the matted material contains up to 75% asbestos fibres by weight. This calculates to 9.3264g of asbestos fibres, which in 507.21g of soil is 18.39g/kg (i.e. > reporting limit for the method of 0.1g/kg).

Sample 103208-30; Chrysotile asbestos identified embedded in a fragment of fibre cement (total weight 2.6449g). It is estimated that the fibre cement contains up to 15% asbestos fibres by weight. This calculates to 0.3967g of asbestos fibres, which in 445.81g of soil is 0.64g/kg (i.e. > reporting limit for the method of 0.1g/kg).

Asbestos ID was analysed by Approved Identifier:	Alex Tam
Asbestos ID was authorised by Approved Signatory:	Paul Ching

INS: Insufficient sample for this test	PQL: Practical Quantitation Limit	NT: Not tested
NA: Test not required	RPD: Relative Percent Difference	NA: Test not required
<: Less than	>: Greater than	LCS: Laboratory Control Sample

Quality Control Definitions

Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

Duplicate: This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

Matrix Spike : A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

LCS (Laboratory Control Sample) : This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Surrogate Spike: Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.
Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.
Spikes for Physical and Aggregate Tests are not applicable.
For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.
Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for SVOC and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been

Envirolab Services Pty Ltd
12 Ashley Street
Chatswood
NSW 2067

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square
SEND REPORT TO: J.R & N.C SEND INVOICE TO: Grace NG
DATE NEEDED BY: STAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: B. Snaidermon
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: jrosner@jbsg.com.au nlussen@jbsg.com.au
QC LEVEL: NEPM (2013)

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	SOIL - 4	SOIL – 4L	SOIL – 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER – 1m	WATER – 2L	WATER – 3L	Asbestos	NOTES:
1	FC057-0.0-0.1	SOIL	17/12.		500g poly.												X	
2	FC057-0.5																	
3	FC057-1.0																	
4	FC057-2.0-2.1																X	
5	FC057-3.0-3.1																	
6	FC057-4.0-4.1																	
7	FC057-5.0-5.1																	
8	FC058-0.0-0.1																	
9	FC058-0.5																X	
10	FC058-1.0																	
11	FC058-2.0-2.1																	
12	FC058-3.0-3.1																	
13	FC058-4.0-4.1																	
14	FC058-5.0-5.1																	
15	FC059-0.0-0.1																X	
16	FC059-0.5																	
17	FC059-1.0																X	
18	FC059-2.0-2.1																X	

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200
ENVIROLAB GROUP
Job No: 102803
Date Received: 18/12/13
Time Received: 1400
Received by: JYH
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: ~~Intact/Broken~~/None

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 17/12/13.	CONSIGNMENT NOTE NO.	NAME: Ellie	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 18/12/13	
NAME: DATE:	CONSIGNMENT NOTE NO.	OF: ELS	COOLER TEMP ..... deg C
OF:	TRANSPORT CO	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
		OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Envirolab

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

Envirolab Services Pty Ltd
12 Ashley Street
Chatswood
NSW 2067

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square
SEND REPORT TO: JR & N.C SEND INVOICE TO: Grace NG.
DATE NEEDED BY: Standard turn around.

LABORATORY BATCH NO.:
SAMPLERS: B. Shrauderman
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: jrosner@jbsg.com.au nrosser@jbsg.com.au
QC LEVEL: NEPM (2013)

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	COMBO SUITES: SOIL - 4	SOIL – 4L	SOIL – 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER – 1m	WATER – 2L	WATER – 3L	Asbestos	NOTES:
102803																		
19	FC059 – 3.0-3.1	Soil	17/12.		500g bag													
20	FC060 – 0.0-0.1																	
21	FC060 – 0.5																	
22	FC060 – 1.0															X		
23	FC060 – 2.0-2.1															X		
24	FC060 – 3.0-3.1															X		
25	FC060 – 4.0-4.1																	
26	FC061 – 0.0-0.1																	
27	FC061 – 0.5																	
28	FC061 – 1.0															X		
29	FC061 – 2.0-2.1																	
30	FC061 – 3.0-3.1				6ML g + 500g bag.											X		
31	FC061 – 40-41																	
32	FC061 – 50-51																	
33	QC02				500 ml bag											X		
34	QC03																	
	QC02 A						Please send to P&R											
	QC02 A						Please send to P&R											

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 17/12.	CONSIGNMENT NOTE NO.	NAME: DATE: 18/12/13	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	OF: ELS	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Envirolab

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

SAMPLE RECEIPT ADVICE

Client:

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney NSW 2000

ph: 02 8245 0300
Fax: 02 8245 0399

Attention: Bianca Shnaiderman, Nathan Cussen

Sample log in details:

Your reference:	**43182, Green Square**
Envirolab Reference:	**102801**
Date received:	18/12/2013
Date results expected to be reported:	**7/01/14**

Samples received in appropriate condition for analysis:	YES
No. of samples provided	2 Soils
Turnaround time requested:	Standard
Temperature on receipt (°C)	14
Cooling Method:	Ice Pack
Sampling Date Provided:	YES

Comments:

Samples will be held for 1 month for water samples and 2 months for soil samples from date of receipt of samples.

Contact details:

Please direct any queries to Aileen Hie or Jacinta Hurst
ph: 02 9910 6200 fax: 02 9910 6201
email: ahie@envirolabservices.com.au or jhurst@envirolabservices.com.au

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

CERTIFICATE OF ANALYSIS 102801

Client:
JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention: Bianca Shnaiderman, Nathan Cussen

Sample log in details:

Your Reference:	**43182, Green Square**
No. of samples:	2 Soils
Date samples received / completed instructions received	18/12/2013 / 18/12/2013

Analysis Details:
Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by: / Issue Date:	7/01/14 / 24/12/13
Date of Preliminary Report:	Not issued

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Results Approved By:

Jacinta Hurst
Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil		
Our Reference:	UNITS	102801-1
Your Reference	----------	QC02-A
Date Sampled	----------	17/12/2013
Type of sample		Soil
Date extracted	-	19/12/2013
Date analysed	-	20/12/2013
TRHC$_6$ - C$_9$	mg/kg	<25
TRHC$_6$ - C$_{10}$	mg/kg	<25
vTPHC$_6$ - C$_{10}$ less BTEX (F1)	mg/kg	<25
Benzene	mg/kg	<0.2
Toluene	mg/kg	<0.5
Ethylbenzene	mg/kg	<1
m+p-xylene	mg/kg	<2
o-Xylene	mg/kg	<1
naphthalene	mg/kg	<1
Surrogate aaa-Trifluorotoluene	%	115

svTRH (C10-C40) in Soil		
Our Reference:	UNITS	102801-1
Your Reference	----------	QC02-A
Date Sampled	----------	17/12/2013
Type of sample		Soil
Date extracted	-	19/12/2013
Date analysed	-	19/12/2013
TRHC$_{10}$ - C$_{14}$	mg/kg	<50
TRHC$_{15}$ - C$_{28}$	mg/kg	190
TRHC$_{29}$ - C$_{36}$	mg/kg	150
TRH>C$_{10}$-C$_{16}$	mg/kg	<50
TRH>C$_{10}$ - C$_{16}$ less Naphthalene (F2)	mg/kg	<50
TRH>C$_{16}$-C$_{34}$	mg/kg	280
TRH>C$_{34}$-C$_{40}$	mg/kg	<100
Surrogate o-Terphenyl	%	94

PAHs in Soil		
Our Reference:	UNITS	102801-1
Your Reference	----------	QC02-A
Date Sampled	----------	17/12/2013
Type of sample		Soil
Date extracted	-	19/12/2013
Date analysed	-	19/12/2013
Naphthalene	mg/kg	0.1
Acenaphthylene	mg/kg	0.4
Acenaphthene	mg/kg	<0.1
Fluorene	mg/kg	0.1
Phenanthrene	mg/kg	2.3
Anthracene	mg/kg	0.7
Fluoranthene	mg/kg	6.8
Pyrene	mg/kg	6.9
Benzo(a)anthracene	mg/kg	4.2
Chrysene	mg/kg	3.6
Benzo(b+k)fluoranthene	mg/kg	6.5
Benzo(a)pyrene	mg/kg	4.4
Indeno(1,2,3-c,d)pyrene	mg/kg	2.4
Dibenzo(a,h)anthracene	mg/kg	0.4
Benzo(g,h,i)perylene	mg/kg	2.3
Benzo(a)pyrene TEQ NEPM B1	mg/kg	6.0
Total +ve PAH's	mg/kg	41
Surrogate p-Terphenyl-d14	%	97

Organochlorine Pesticides in soil		
Our Reference:	UNITS	102801-1
Your Reference	----------	QC02-A
Date Sampled	----------	17/12/2013
Type of sample		Soil
Date extracted	-	19/12/2013
Date analysed	-	20/12/2013
HCB	mg/kg	<0.1
alpha-BHC	mg/kg	<0.1
gamma-BHC	mg/kg	<0.1
beta-BHC	mg/kg	<0.1
Heptachlor	mg/kg	<0.1
delta-BHC	mg/kg	<0.1
Aldrin	mg/kg	<0.1
Heptachlor Epoxide	mg/kg	<0.1
gamma-Chlordane	mg/kg	<0.1
alpha-chlordane	mg/kg	<0.1
Endosulfan I	mg/kg	<0.1
pp-DDE	mg/kg	<0.1
Dieldrin	mg/kg	<0.1
Endrin	mg/kg	<0.1
pp-DDD	mg/kg	<0.1
Endosulfan II	mg/kg	<0.1
pp-DDT	mg/kg	<0.1
Endrin Aldehyde	mg/kg	<0.1
Endosulfan Sulphate	mg/kg	<0.1
Methoxychlor	mg/kg	<0.1
Surrogate TCMX	%	80

PCBs in Soil		
Our Reference:	UNITS	102801-1
Your Reference	----------	QC02-A
Date Sampled	----------	17/12/2013
Type of sample		Soil
Date extracted	-	19/12/2013
Date analysed	-	20/12/2013
Arochlor 1016	mg/kg	<0.1
Arochlor 1221	mg/kg	<0.1
Arochlor 1232	mg/kg	<0.1
Arochlor 1242	mg/kg	<0.1
Arochlor 1248	mg/kg	<0.1
Arochlor 1254	mg/kg	<0.1
Arochlor 1260	mg/kg	<0.1
Surrogate TCLMX	%	80

Acid Extractable metals in soil		
Our Reference:	UNITS	102801-1
Your Reference	----------	QC02-A
Date Sampled	----------	17/12/2013
Type of sample		Soil
Date digested	-	19/12/2013
Date analysed	-	19/12/2013
Arsenic	mg/kg	8
Cadmium	mg/kg	0.5
Chromium	mg/kg	10
Copper	mg/kg	93
Lead	mg/kg	330
Mercury	mg/kg	0.3
Nickel	mg/kg	13
Zinc	mg/kg	290

Moisture		
Our Reference:	UNITS	102801-1
Your Reference	----------	QC02-A
Date Sampled	----------	17/12/2013
Type of sample		Soil
Date prepared	-	19/12/2013
Date analysed	-	20/12/2013
Moisture	%	21

Method ID	Methodology Summary
Org-016	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-014	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-003	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note Naphthalene is determined from the VOC analysis.
Org-012 subset	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.
Org-005	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.
Org-006	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.
Metals-020 ICP-AES	Determination of various metals by ICP-AES.
Metals-021 CV-AAS	Determination of Mercury by Cold Vapour AAS.
Inorg-008	Moisture content determined by heating at 105+/-5 deg C for a minimum of 12 hours.

QUALITY CONTROL vTRH(C6-C10)/BTEXN in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			19/12/2013	[NT]	[NT]	LCS-1	19/12/2013
Date analysed	-			20/12/2013	[NT]	[NT]	LCS-1	20/12/2013
TRHC$_6$ - C$_9$	mg/kg	25	Org-016	<25	[NT]	[NT]	LCS-1	133%
TRHC$_6$ - C$_{10}$	mg/kg	25	Org-016	<25	[NT]	[NT]	LCS-1	133%
Benzene	mg/kg	0.2	Org-016	<0.2	[NT]	[NT]	LCS-1	120%
Toluene	mg/kg	0.5	Org-016	<0.5	[NT]	[NT]	LCS-1	121%
Ethylbenzene	mg/kg	1	Org-016	<1	[NT]	[NT]	LCS-1	132%
m+p-xylene	mg/kg	2	Org-016	<2	[NT]	[NT]	LCS-1	139%
o-Xylene	mg/kg	1	Org-016	<1	[NT]	[NT]	LCS-1	139%
naphthalene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
Surrogate aaa-Trifluorotoluene	%		Org-016	115	[NT]	[NT]	LCS-1	115%
QUALITY CONTROL svTRH (C10-C40) in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			19/12/2013	[NT]	[NT]	LCS-1	19/12/2013
Date analysed	-			19/12/2013	[NT]	[NT]	LCS-1	19/12/2013
TRHC$_{10}$ - C$_{14}$	mg/kg	50	Org-003	<50	[NT]	[NT]	LCS-1	96%
TRHC$_{15}$ - C$_{28}$	mg/kg	100	Org-003	<100	[NT]	[NT]	LCS-1	95%
TRHC$_{29}$ - C$_{36}$	mg/kg	100	Org-003	<100	[NT]	[NT]	LCS-1	81%
TRH>C$_{10}$-C$_{16}$	mg/kg	50	Org-003	<50	[NT]	[NT]	LCS-1	96%
TRH>C$_{16}$-C$_{34}$	mg/kg	100	Org-003	<100	[NT]	[NT]	LCS-1	95%
TRH>C$_{34}$-C$_{40}$	mg/kg	100	Org-003	<100	[NT]	[NT]	LCS-1	81%
Surrogate o-Terphenyl	%		Org-003	83	[NT]	[NT]	LCS-1	101%
QUALITY CONTROL PAHs in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			19/12/2013	[NT]	[NT]	LCS-1	19/12/2013
Date analysed	-			19/12/2013	[NT]	[NT]	LCS-1	19/12/2013
Naphthalene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-1	95%
Acenaphthylene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Acenaphthene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Fluorene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-1	96%
Phenanthrene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-1	98%
Anthracene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Fluoranthene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-1	97%

QUALITY CONTROL PAHs in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Pyrene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-1	102%
Benzo(a)anthracene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Chrysene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-1	92%
Benzo(b+k)fluoranthene	mg/kg	0.2	Org-012 subset	<0.2	[NT]	[NT]	[NR]	[NR]
Benzo(a)pyrene	mg/kg	0.05	Org-012 subset	<0.05	[NT]	[NT]	LCS-1	100%
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Surrogate p-Terphenyl-d14	%		Org-012 subset	97	[NT]	[NT]	LCS-1	97%
QUALITY CONTROL Organochlorine Pesticides in soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			19/12/2013	[NT]	[NT]	LCS-1	19/12/2013
Date analysed	-			20/12/2013	[NT]	[NT]	LCS-1	20/12/2013
HCB	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
alpha-BHC	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-1	86%
gamma-BHC	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
beta-BHC	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-1	91%
Heptachlor	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-1	89%
delta-BHC	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
Aldrin	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-1	89%
Heptachlor Epoxide	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-1	92%
gamma-Chlordane	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
alpha-chlordane	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
Endosulfan I	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
pp-DDE	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-1	90%
Dieldrin	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-1	93%
Endrin	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-1	87%
pp-DDD	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-1	94%
Endosulfan II	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
pp-DDT	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
Endrin Aldehyde	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
Endosulfan Sulphate	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-1	92%
Methoxychlor	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
Surrogate TCMX	%		Org-005	83	[NT]	[NT]	LCS-1	106%

Client Reference: 43182, Green Square

QUALITY CONTROL PCBs in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			19/12/2013	[NT]	[NT]	LCS-1	19/12/2013
Date analysed	-			20/12/2013	[NT]	[NT]	LCS-1	20/12/2013
Arochlor 1016	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1221	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1232	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1242	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1248	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1254	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	LCS-1	101%
Arochlor 1260	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Surrogate TCLMX	%		Org-006	83	[NT]	[NT]	LCS-1	76%
QUALITY CONTROL Acid Extractable metals in soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date digested	-			19/12/2013	[NT]	[NT]	LCS-2	19/12/2013
Date analysed	-			19/12/2013	[NT]	[NT]	LCS-2	19/12/2013
Arsenic	mg/kg	4	Metals-020 ICP-AES	<4	[NT]	[NT]	LCS-2	97%
Cadmium	mg/kg	0.4	Metals-020 ICP-AES	<0.4	[NT]	[NT]	LCS-2	103%
Chromium	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-2	102%
Copper	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-2	102%
Lead	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-2	100%
Mercury	mg/kg	0.1	Metals-021 CV-AAS	<0.1	[NT]	[NT]	LCS-2	92%
Nickel	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-2	102%
Zinc	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-2	103%

QUALITY CONTROL Moisture	UNITS	PQL	METHOD	Blank
Date prepared	-			[NT]
Date analysed	-			[NT]
Moisture	%	0.1	Inorg-008	[NT]

Report Comments:

Asbestos ID was analysed by Approved Identifier:	Not applicable for this job
Asbestos ID was authorised by Approved Signatory:	Not applicable for this job

INS: Insufficient sample for this test	PQL: Practical Quantitation Limit	NT: Not tested
NA: Test not required	RPD: Relative Percent Difference	NA: Test not required
<: Less than	>: Greater than	LCS: Laboratory Control Sample

Quality Control Definitions

Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

Duplicate: This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

Matrix Spike : A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

LCS (Laboratory Control Sample) : This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Surrogate Spike: Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.
Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.
Spikes for Physical and Aggregate Tests are not applicable.
For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.
Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for SVOC and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Envirolab Services Pty Ltd
12 Ashley Street
Chatswood
NSW 2067

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square
SEND REPORT TO: B.S&N.C SEND INVOICE TO: Grace NG
DATE NEEDED BY: STAT

LABORATORY BATCH NO.:
SAMPLERS: B. Shnaiderman
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: bshnaiderman@jbsg.com.au nrussen@jmg.com.au.
QC LEVEL: NEPM (2013)

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	COMBO SUITES: SOIL - 4	SOIL – 4L	SOIL – 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER – 1m	WATER – 2L	WATER – 3L	NOTES:
1	QC02-A	SOIL	17/12		jar + ICE					X							
2	QC03-A	↓	↓		↓												

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 102801
Date Received: 18/12
Time Received: 1400
Received by: NIC
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: B. J DATE: 17/12/17	CONSIGNMENT NOTE NO.	NAME: Nicole	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 18/12	
		OF: ES	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Envirolab

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

SAMPLE RECEIPT ADVICE

Client:

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney NSW 2000

ph: 02 8245 0300
Fax: 02 8245 0399

Attention: Joanne Rosner, Nathan Cussen

Sample log in details:

Your reference:	**43182, Green Square**
Envirolab Reference:	**102726**
Date received:	17/12/13
Date results expected to be reported:	**24/12/13**

Samples received in appropriate condition for analysis:	YES
No. of samples provided	25 soils
Turnaround time requested:	Standard
Temperature on receipt (°C)	NA
Cooling Method:	None
Sampling Date Provided:	YES

Comments:

Samples will be held for 1 month for water samples and 2 months for soil samples from date of receipt of samples.

missing FC056 3.0-3.1

Contact details:

Please direct any queries to Aileen Hie or Jacinta Hurst
ph: 02 9910 6200 fax: 02 9910 6201
email: ahie@envirolabservices.com.au or jhurst@envirolabservices.com.au

Envirolab Services Pty Ltd
ABN 37 112 535 645
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CERTIFICATE OF ANALYSIS 102726

Client:
JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention: Joanne Rosner, Nathan Cussen

Sample log in details:

Your Reference:	**43182, Green Square**		
No. of samples:	25 soils		
Date samples received / completed instructions received	17/12/13	/	17/12/13

Analysis Details:
Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by: / Issue Date:	24/12/13	/	24/12/13
Date of Preliminary Report:	Not Issued		

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Accredited for compliance with ISO/IEC 17025. **Tests not covered by NATA are denoted with *.**

Results Approved By:

Jacinta Hurst
Laboratory Manager

Asbestos ID - soils WA						
Our Reference:	UNITS	102726-1	102726-5	102726-8	102726-9	102726-12
Your Reference	----------	FC053	FC053	FC054	FC054	FC055
Depth	----------	0.0-0.1	2.0-2.1	0.5	1.0	0.0-0.1
Date Sampled		16/12/2013	16/12/2013	16/12/2013	16/12/2013	16/12/2013
Type of sample		soil	soil	soil	soil	soil
Date analysed	-	24/12/2013	24/12/2013	24/12/2013	24/12/2013	24/12/2013
Sample mass tested	g	685.78g	635.88g	682.17g	627.46g	511.80g
Sample Description	-	Grey coarse-grained soil & rocks	Grey coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected

Asbestos ID - soils WA					
Our Reference:	UNITS	102726-14	102726-17	102726-23	102726-25
Your Reference	----------	FC055	FC055	FC056	QC01
Depth	----------	1.0	4.0-4.1	2.0-2.1	-
Date Sampled		16/12/2013	16/12/2013	16/12/2013	16/12/2013
Type of sample		soil	soil	soil	soil
Date analysed	-	24/12/2013	24/12/2013	24/12/2013	24/12/2013
Sample mass tested	g	645.37g	544.96g	611.74g	534.70g
Sample Description	-	Grey coarse-grained soil & rocks	Grey coarse-grained soil & rocks	Grey coarse-grained soil & rocks	Grey coarse-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected

Asbestos ID - materials		
Our Reference:	UNITS	102726-18
Your Reference	----------	FC055-F1
Depth	----------	-
Date Sampled		16/12/2013
Type of sample		Material
Date analysed	-	23/12/2013
Mass / Dimension of Sample	-	97x67x4mm
Sample Description	-	Brown compressed fibre cement material
Asbestos ID in materials	-	Chrysotile asbestos detected

Method ID	Methodology Summary
ASB-003	Asbestos ID - Minimum 500mL soil sample was analysed as recommended by "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.1g/kg as per AS4964-2004.
ASB-001	Asbestos ID - Qualitative identification of asbestos in bulk samples using Polarised Light Microscopy and Dispersion Staining Techniques including Synthetic Mineral Fibre and Organic Fibre as per Australian Standard 4964-2004.

Report Comments:

Asbestos in soil:

This report is consistent with the analytical procedures and reporting recommendations in the Western Australian Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009.

Note: All samples analysed as received. However, samples 102726-12, 17 & 25 are below the minimum 500mL sample volume as per Western Australia's DOH guidelines.

Sample 102726-12; Chrysotile asbestos identified in matted material (total weight 0.0016g). It is estimated that the matted material contains up to 90% asbestos fibres by weight. This calculates to 0.0014g of asbestos fibres, which in 511.80g of soil is 0.00g/kg (i.e. < reporting limit for the method of 0.1g/kg).

Asbestos ID was analysed by Approved Identifier:	Paul Ching, Alex Tam
Asbestos ID was authorised by Approved Signatory:	Paul Ching

INS: Insufficient sample for this test	PQL: Practical Quantitation Limit	NT: Not tested
NA: Test not required	RPD: Relative Percent Difference	NA: Test not required
<: Less than	>: Greater than	LCS: Laboratory Control Sample

Quality Control Definitions

Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

Duplicate: This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

Matrix Spike : A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

LCS (Laboratory Control Sample) : This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Surrogate Spike: Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for SVOC and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as

Envirolab Services Pty Ltd
12 Ashley Street
Chatswood
NSW 2067

Paige 1/2

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square
SEND REPORT TO: J.R&N.C SEND INVOICE TO: Gcce NG
DATE NEEDED BY: STAT

LABORATORY BATCH NO.:
SAMPLERS: B. Shnaiderman
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: jrosner@jbsg.com.au ncusseno@jbsg.com.au

QC LEVEL: NEPM (2013)

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	COMBO SUITES: SOIL - 4	SOIL – 4L	SOIL – 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER – 1m	WATER – 2L	WATER – 3L	Asbestos	NOTES:
1	FC053-0.0-0.1	SOIL	16/12/13		500g bag												X	
2	FC053-0.5-0.6																	
3	FC053-1.0-1.1																	
4	FC053-1.5-1.6																	
5	FC053-2.0-2.1																X	
6	FC053-2.5-2.6																	
7	FC054-0.0-0.1																	
8	FC054-0.5																X	
9	FC054-1.0m																X	
10	FC054-2.0-2.1																	
11	FC054-3.0-3.1																	
12	FC055 0.0-0.1																X	
13	FC055-0.5																	
14	FC055-1.0																X	
15	FC055-2.0-2.1																	
16	FC055-3.0-3.1																	
17	FC055-4.0-4.1																X	
18	FC055-F1	Material			Bag												X	

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 102726
Date Received: 17.12.13
Time Received: 15:20
Received by: D.F
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: BR DATE: 16/12/13	CONSIGNMENT NOTE NO.	NAME: Daniel Ford	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 17.12.13	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	OF: ELS	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	NAME: DATE: OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Envirolab

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

Envirolab Services Pty Ltd
12 Ashley Street
Chatswood
NSW 2067

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square
SEND REPORT TO: NC SEND INVOICE TO: Grace Ng
DATE NEEDED BY: Std TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: BS
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: nwassen@jbsg.com.au
QC LEVEL: NEPM (2013)

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	COMBO SUITES: SOIL - 4	SOIL – 4L	SOIL – 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER – 1m	WATER – 2L	WATER – 3L	Asbestos fee										NOTES:
9	FC055 5.0-5.1	Soil	16/12/13		500 ml bag																						
10	FC056 0.0-0.1																										
11	FC056 0.5-																										
12	FC056 1.0																										
13	FC056 2.0-2.1																										
14	FC056 3.0-3.1																X										
4	FC053 2.5-2.6				6 Kg bag												X										
15	QC01				500 ml bag																						
	QC01A																X										
	Please send to Pickford & Rhyd-5																										

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Nathan Wassen DATE: 16/12/13 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: Daniel Ford DATE: 17.12.13 OF: ECS	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C
NAME: DATE: OF:	CONSIGNMENT NOTE NO. TRANSPORT CO	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

PICKFORD & RHYDER CONSULTING PTY LTD
ABN 17 105 546 076
Occupational Hygiene Measurements and Solutions.

PO Box 1422 Lane Cove 1595
Rear - 244 Burns Bay Road
Lane Cove NSW Australia
Phone: (02) 9418 9151
Fax: (02) 9418 9150

24 December 2013

Joanne Rosner & Nathan Cussen
JBS&G (NSW & WA) Pty Ltd
Level 1
50 Margaret Street
SYDNEY NSW 2000

Email: jrosner@jbsg.com.au, ncussen@jbsg.com.au

CERTIFICATE OF ANALYSIS – ASBESTOS IDENTIFICATION

YOUR REFERENCE/JOB No: 43182
TYPE OF SAMPLES: Bulk sample - as received from Envirolab Services
SITE LOCATION: Green Square
DATE SAMPLED: 17 December 2013 **DATE RECEIVED:** 19 December 2013
OUR REFERENCE: 77604-ID

TEST METHOD: Soil samples examined by Stereomicroscopy and Polarized Light Microscopy (with Dispersion Staining) in accordance with AS 4964-2004: - 'Method for the qualitative identification of asbestos in bulk samples' as outlined in Laboratory Method ID/1. The Reporting Limit for the results in this Certificate is numerically equal to the lowest detection limit of 0.1 g/kg. Trace asbestos analysis has been conducted on each sample, which is generally designed to detect 'respirable' asbestos fibres (ie less than 3 micrometres in width) distributed throughout the sample.

Sample No	*Lab No*	*Sample Information*	*Analysis Result*	*Description*
QC02-A	77604	Soil sample as received	No asbestos detected	The sample was a grey soil with stones, of total approximate weight 525 g, in which organic fibres were detected in the +2 mm and -2mm fraction. No asbestos fibres were detected in the +2 mm fraction. No asbestos fibres were detected in a representative sub-sample of the –2 mm fraction. No asbestos fibres were found at the Reporting Limit of 0.1g/kg.

All sampling and site work has been undertaken by the client - the analytical procedures and results reported on this Certificate have been conducted by Pickford & Rhyder Consulting.

Sampling is not covered by the scope of accreditation.

Analysed and reported by:

Gary Conaty,
Approved Identifier and Signatory.

NATA
ACCREDITED FOR TECHNICAL COMPETENCE

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Accreditation number 2515

P&L. Lab # 77604

Envirolab Services Pty Ltd
12 Ashley Street
Chatswood
NSW 2067

CHAIN OF CUSTODY

102803

JBS&G

PROJECT NO.: 43182.
PROJECT NAME: Green Square
SEND REPORT TO: B.Sa N.C SEND INVOICE TO: Grace NG
DATE NEEDED BY: STANDAR TURN AROUND

LABORATORY BATCH NO.:
SAMPLERS: B. Shnaiderman
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: bshnaiderman@jbsg.com.au nussen@jbsg.com.au

QC LEVEL: NEPM (2013)

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	COMBO SUITES: SOIL - 4	SOIL – 4L	SOIL – 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER – 1m	WATER – 2L	WATER – 3L	Asbestos	Hold	NOTES:
QC02-A	SOIL	17/12		500g bag												X		
QC03-A	↓	↓		500g bag													X	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: B DATE: 17/12 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: DATE: 18/12/13 OF: ES	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C
NAME: DATE: 19/12/13 OF:	CONSIGNMENT NOTE NO. TRANSPORT CO	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

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Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

Recd 19/12/13
10.30
JM.

PICKFORD & RHYDER CONSULTING PTY LTD
ABN 17 105 546 076
Occupational Hygiene Measurements and Solutions.

PO Box 1422 Lane Cove 1595
Rear - 244 Burns Bay Road
Lane Cove NSW Australia
Phone: (02) 9418 9151
Fax: (02) 9418 9150

24 December 2013

Joanne Rosner & Nathan Cussen
JBS&G (NSW & WA) Pty Ltd
Level 1
50 Margaret Street
SYDNEY NSW 2000
Email: jrosner@jbsg.com.au, ncussen@jbsg.com.au

CERTIFICATE OF ANALYSIS – ASBESTOS IDENTIFICATION

YOUR REFERENCE/JOB No: 43182
TYPE OF SAMPLES: Bulk sample - as received from Envirolab Services
SITE LOCATION: Green Square
DATE SAMPLED: 16 December 2013 **DATE RECEIVED:** 18 December 2013
OUR REFERENCE: 77579-ID

TEST METHOD: Soil samples examined by Stereomicroscopy and Polarized Light Microscopy (with Dispersion Staining) in accordance with AS 4964-2004: - 'Method for the qualitative identification of asbestos in bulk samples' as outlined in Laboratory Method ID/1. The Reporting Limit for the results in this Certificate is numerically equal to the lowest detection limit of 0.1 g/kg. Trace asbestos analysis has been conducted on each sample, which is generally designed to detect 'respirable' asbestos fibres (ie less than 3 micrometres in width) distributed throughout the sample.

Sample No	*Lab No*	*Sample Information*	*Analysis Result*	*Description*
QC01-A	77579	Soil sample as received	Chrysotile asbestos detected	The sample was a grey/brown soil, with stones and plant matter of total approximate weight 437 g, in which asbestos fibres & organic fibres were detected in the +2 mm fraction. Chrysotile asbestos fibres were detected in a fibrous bundle measuring 0.2 x 0.05 x 0.1 mm in dimensions. No asbestos fibres were detected in a representative sub-sample of the –2 mm fraction. No asbestos fibres were found at the Reporting Limit of 0.1g/kg. No asbestos fibres were detected in the trace analysis.

All sampling and site work has been undertaken by the client - the analytical procedures and results reported on this Certificate have been conducted by Pickford & Rhyder Consulting.

Sampling is not covered by the scope of accreditation.

Analysed and reported by:

Gary Conaty,
Approved Identifier and Signatory.

NATA
ACCREDITED FOR TECHNICAL COMPETENCE

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Accreditation number 2515

P&R.

Lab # 77579

Page 1/1

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 43182

PROJECT NAME: Green Square

SEND REPORT TO: J.R & NC SEND INVOICE TO: Grace NG

DATE NEEDED BY: STAT

LABORATORY BATCH NO.:

SAMPLERS: B. Shoulderman.

PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: jrosner@jbsg.com.au nwisse@jbsg.com.au

QC LEVEL: NEPM (2013)

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	COMBO SUITES: SOIL - 4	SOIL – 4L	SOIL – 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER – 1m	WATER – 2L	WATER – 3L	Asbestos	NOTES:
QC01-A	SOIL	16/12		500g bag												X	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 16/12/13	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: OF:	COOLER TEMP ..... deg C
NAME: DATE: 18/12/13	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

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Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

recd 18/12/13
10:30
JM

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

CERTIFICATE OF ANALYSIS 102718

Client:
JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention: Joanne Rosner, Nathan Cussen

Sample log in details:

Your Reference:	**43182, Green Square**		
No. of samples:	1 Soil		
Date samples received / completed instructions received	17/12/13	/	17/12/13

Analysis Details:
Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by: / Issue Date:	24/12/13	/	23/12/13
Date of Preliminary Report:	Not issued		

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Accredited for compliance with ISO/IEC 17025. **Tests not covered by NATA are denoted with *.**

Results Approved By:

Jacinta Hurst
Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil		
Our Reference:	UNITS	102718-1
Your Reference	----------	QC01-A
Date Sampled	----------	16/12/2013
Type of sample		soil
Date extracted	-	18/12/2013
Date analysed	-	21/12/2013
TRHC$_6$ - C$_9$	mg/kg	<25
TRHC$_6$ - C$_{10}$	mg/kg	<25
vTPHC$_6$ - C$_{10}$ less BTEX (F1)	mg/kg	<25
Benzene	mg/kg	<0.2
Toluene	mg/kg	<0.5
Ethylbenzene	mg/kg	<1
m+p-xylene	mg/kg	<2
o-Xylene	mg/kg	<1
naphthalene	mg/kg	<1
Surrogate aaa-Trifluorotoluene	%	92

svTRH (C10-C40) in Soil		
Our Reference:	UNITS	102718-1
Your Reference	----------	QC01-A
Date Sampled	----------	16/12/2013
Type of sample		soil
Date extracted	-	18/12/2013
Date analysed	-	19/12/2013
TRHC$_{10}$ - C$_{14}$	mg/kg	<50
TRHC$_{15}$ - C$_{28}$	mg/kg	<100
TRHC$_{29}$ - C$_{36}$	mg/kg	190
TRH>C$_{10}$-C$_{16}$	mg/kg	<50
TRH>C$_{10}$ - C$_{16}$ less Naphthalene (F2)	mg/kg	<50
TRH>C$_{16}$-C$_{34}$	mg/kg	240
TRH>C$_{34}$-C$_{40}$	mg/kg	120
Surrogate o-Terphenyl	%	84

PAHs in Soil		
Our Reference:	UNITS	102718-1
Your Reference	----------	QC01-A
Date Sampled	----------	16/12/2013
Type of sample		soil
Date extracted	-	18/12/2013
Date analysed	-	19/12/2013
Naphthalene	mg/kg	<0.1
Acenaphthylene	mg/kg	0.2
Acenaphthene	mg/kg	<0.1
Fluorene	mg/kg	<0.1
Phenanthrene	mg/kg	1.0
Anthracene	mg/kg	0.4
Fluoranthene	mg/kg	2.5
Pyrene	mg/kg	2.6
Benzo(a)anthracene	mg/kg	1.7
Chrysene	mg/kg	1.7
Benzo(b+k)fluoranthene	mg/kg	4.1
Benzo(a)pyrene	mg/kg	2.7
Indeno(1,2,3-c,d)pyrene	mg/kg	1.7
Dibenzo(a,h)anthracene	mg/kg	0.4
Benzo(g,h,i)perylene	mg/kg	1.7
Benzo(a)pyrene TEQ NEPM B1	mg/kg	4.0
Total +ve PAH's	mg/kg	21
Surrogate p-Terphenyl-d14	%	95

Organochlorine Pesticides in soil		
Our Reference:	UNITS	102718-1
Your Reference	----------	QC01-A
Date Sampled	----------	16/12/2013
Type of sample		soil
Date extracted	-	18/12/2013
Date analysed	-	19/12/2013
HCB	mg/kg	<0.1
alpha-BHC	mg/kg	<0.1
gamma-BHC	mg/kg	<0.1
beta-BHC	mg/kg	<0.1
Heptachlor	mg/kg	<0.1
delta-BHC	mg/kg	<0.1
Aldrin	mg/kg	<0.1
Heptachlor Epoxide	mg/kg	<0.1
gamma-Chlordane	mg/kg	<0.1
alpha-chlordane	mg/kg	<0.1
Endosulfan I	mg/kg	<0.1
pp-DDE	mg/kg	<0.1
Dieldrin	mg/kg	<0.1
Endrin	mg/kg	<0.1
pp-DDD	mg/kg	<0.1
Endosulfan II	mg/kg	<0.1
pp-DDT	mg/kg	<0.1
Endrin Aldehyde	mg/kg	<0.1
Endosulfan Sulphate	mg/kg	<0.1
Methoxychlor	mg/kg	<0.1
Surrogate TCMX	%	93

PCBs in Soil		
Our Reference:	UNITS	102718-1
Your Reference	----------	QC01-A
Date Sampled	----------	16/12/2013
Type of sample		soil
Date extracted	-	18/12/2013
Date analysed	-	19/12/2013
Arochlor 1016	mg/kg	<0.1
Arochlor 1221	mg/kg	<0.1
Arochlor 1232	mg/kg	<0.1
Arochlor 1242	mg/kg	<0.1
Arochlor 1248	mg/kg	<0.1
Arochlor 1254	mg/kg	<0.1
Arochlor 1260	mg/kg	<0.1
Surrogate TCLMX	%	93

Acid Extractable metals in soil		
Our Reference:	UNITS	102718-1
Your Reference	----------	QC01-A
Date Sampled	----------	16/12/2013
Type of sample		soil
Date digested	-	18/12/2013
Date analysed	-	18/12/2013
Arsenic	mg/kg	9
Cadmium	mg/kg	1.4
Chromium	mg/kg	12
Copper	mg/kg	100
Lead	mg/kg	1,500
Mercury	mg/kg	1.0
Nickel	mg/kg	14
Zinc	mg/kg	670

Moisture		
Our Reference:	UNITS	102718-1
Your Reference	----------	QC01-A
Date Sampled	----------	16/12/2013
Type of sample		soil
Date prepared	-	18/12/2013
Date analysed	-	19/12/2013
Moisture	%	17

Method ID	Methodology Summary
Org-016	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-014	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-003	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note Naphthalene is determined from the VOC analysis.
Org-012 subset	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.
Org-005	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.
Org-006	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.
Metals-020 ICP-AES	Determination of various metals by ICP-AES.
Metals-021 CV-AAS	Determination of Mercury by Cold Vapour AAS.
Inorg-008	Moisture content determined by heating at 105+/-5 deg C for a minimum of 12 hours.

QUALITY CONTROL vTRH(C6-C10)/BTEXN in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			18/12/2013	[NT]	[NT]	LCS-2	18/12/2013
Date analysed	-			21/12/2013	[NT]	[NT]	LCS-2	21/12/2013
TRHC$_6$ - C$_9$	mg/kg	25	Org-016	<25	[NT]	[NT]	LCS-2	101%
TRHC$_6$ - C$_{10}$	mg/kg	25	Org-016	<25	[NT]	[NT]	LCS-2	101%
Benzene	mg/kg	0.2	Org-016	<0.2	[NT]	[NT]	LCS-2	95%
Toluene	mg/kg	0.5	Org-016	<0.5	[NT]	[NT]	LCS-2	99%
Ethylbenzene	mg/kg	1	Org-016	<1	[NT]	[NT]	LCS-2	102%
m+p-xylene	mg/kg	2	Org-016	<2	[NT]	[NT]	LCS-2	105%
o-Xylene	mg/kg	1	Org-016	<1	[NT]	[NT]	LCS-2	107%
naphthalene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
Surrogate aaa-Trifluorotoluene	%		Org-016	96	[NT]	[NT]	LCS-2	90%
QUALITY CONTROL svTRH (C10-C40) in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			18/12/2013	[NT]	[NT]	LCS-2	18/12/2013
Date analysed	-			19/12/2013	[NT]	[NT]	LCS-2	19/12/2013
TRHC$_{10}$ - C$_{14}$	mg/kg	50	Org-003	<50	[NT]	[NT]	LCS-2	98%
TRHC$_{15}$ - C$_{28}$	mg/kg	100	Org-003	<100	[NT]	[NT]	LCS-2	99%
TRHC$_{29}$ - C$_{36}$	mg/kg	100	Org-003	<100	[NT]	[NT]	LCS-2	127%
TRH>C$_{10}$-C$_{16}$	mg/kg	50	Org-003	<50	[NT]	[NT]	LCS-2	98%
TRH>C$_{16}$-C$_{34}$	mg/kg	100	Org-003	<100	[NT]	[NT]	LCS-2	99%
TRH>C$_{34}$-C$_{40}$	mg/kg	100	Org-003	<100	[NT]	[NT]	LCS-2	124%
Surrogate o-Terphenyl	%		Org-003	88	[NT]	[NT]	LCS-2	113%
QUALITY CONTROL PAHs in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			18/12/2013	[NT]	[NT]	LCS-2	18/12/2013
Date analysed	-			19/12/2013	[NT]	[NT]	LCS-2	19/12/2013
Naphthalene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-2	102%
Acenaphthylene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Acenaphthene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Fluorene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-2	105%
Phenanthrene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-2	102%
Anthracene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Fluoranthene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-2	100%

QUALITY CONTROL PAHs in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base II Duplicate II %RPD	Spike Sm#	Spike % Recovery
Pyrene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-2	105%
Benzo(a)anthracene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Chrysene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-2	95%
Benzo(b+k)fluoranthene	mg/kg	0.2	Org-012 subset	<0.2	[NT]	[NT]	[NR]	[NR]
Benzo(a)pyrene	mg/kg	0.05	Org-012 subset	<0.05	[NT]	[NT]	LCS-2	112%
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Surrogate p-Terphenyl-d14	%		Org-012 subset	99	[NT]	[NT]	LCS-2	94%
QUALITY CONTROL Organochlorine Pesticides in soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base II Duplicate II %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			18/12/2013	[NT]	[NT]	LCS-2	18/12/2013
Date analysed	-			19/12/2013	[NT]	[NT]	LCS-2	19/12/2013
HCB	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
alpha-BHC	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-2	103%
gamma-BHC	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
beta-BHC	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-2	105%
Heptachlor	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-2	99%
delta-BHC	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
Aldrin	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-2	98%
Heptachlor Epoxide	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-2	66%
gamma-Chlordane	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
alpha-chlordane	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
Endosulfan I	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
pp-DDE	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-2	102%
Dieldrin	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-2	106%
Endrin	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-2	98%
pp-DDD	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-2	106%
Endosulfan II	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
pp-DDT	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
Endrin Aldehyde	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
Endosulfan Sulphate	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-2	93%
Methoxychlor	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
Surrogate TCMX	%		Org-005	91	[NT]	[NT]	LCS-2	90%

Client Reference: 43182, Green Square

QUALITY CONTROL PCBs in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			18/12/2013	[NT]	[NT]	LCS-2	18/12/2013
Date analysed	-			19/12/2013	[NT]	[NT]	LCS-2	19/12/2013
Arochlor 1016	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1221	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1232	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1242	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1248	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1254	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	LCS-2	113%
Arochlor 1260	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Surrogate TCLMX	%		Org-006	91	[NT]	[NT]	LCS-2	87%

QUALITY CONTROL Acid Extractable metals in soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date digested	-			18/12/2013	[NT]	[NT]	LCS-1	18/12/2013
Date analysed	-			18/12/2013	[NT]	[NT]	LCS-1	18/12/2013
Arsenic	mg/kg	4	Metals-020 ICP-AES	<4	[NT]	[NT]	LCS-1	91%
Cadmium	mg/kg	0.4	Metals-020 ICP-AES	<0.4	[NT]	[NT]	LCS-1	98%
Chromium	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-1	97%
Copper	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-1	94%
Lead	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-1	93%
Mercury	mg/kg	0.1	Metals-021 CV-AAS	<0.1	[NT]	[NT]	LCS-1	92%
Nickel	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-1	97%
Zinc	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-1	97%

QUALITY CONTROL Moisture	UNITS	PQL	METHOD	Blank
Date prepared	-			[NT]
Date analysed	-			[NT]
Moisture	%	0.1	Inorg-008	[NT]

Report Comments:

Asbestos ID was analysed by Approved Identifier:	Not applicable for this job
Asbestos ID was authorised by Approved Signatory:	Not applicable for this job

INS: Insufficient sample for this test	PQL: Practical Quantitation Limit	NT: Not tested
NA: Test not required	RPD: Relative Percent Difference	NA: Test not required
<: Less than	>: Greater than	LCS: Laboratory Control Sample

Quality Control Definitions

Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

Duplicate: This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

Matrix Spike : A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

LCS (Laboratory Control Sample) : This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Surrogate Spike: Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.
Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.
Spikes for Physical and Aggregate Tests are not applicable.
For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.
Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for SVOC and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Envirolab Services Pty Ltd
12 Ashley Street
Chatswood
NSW 2067

Page 1/1

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square
SEND REPORT TO: J.REANC SEND INVOICE TO: GreeNG
DATE NEEDED BY: STAT

LABORATORY BATCH NO.:
SAMPLERS: R.S
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: jreanc@jbsg.com.au nrussell@jbsg.com.au

QC LEVEL: NEPM (2013)

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	SOIL - 4	SOIL – 4L	SOIL – 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER – 1m	WATER – 2L	WATER – 3L	NOTES:
1	1001-A	SOIL	16/12		Jar + ICE					X							Combo 5 8 Metals TRH/BTEX OC/PCB PAH

ENVIROLAB GROUP
Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 102718
Date Received: 17.12.13
Time Received: ~~10:00~~ 14:00
Received by: D.F
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: RJ DATE: 16/12/13 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: Daniel Ford DATE: 17.12.13 OF: ELS	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C
NAME: DATE: OF:	CONSIGNMENT NOTE NO. TRANSPORT CO	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Envirolab

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

eurofins | mgt

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Site # 1254 & 14271

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Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: ADDITIONAL: GREEN SQUARE BLOCK 5B 43182

Order No.:
Report #: 406762
Phone: 02 8245 0300
Fax:

Received: Jan 28, 2014 9:03 AM
Due: Feb 4, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Polycyclic Aromatic Hydrocarbons	Toxicity Characteristic Leaching Procedure (TCLP)	Metals M8
Laboratory where analysis is conducted								
Melbourne Laboratory - NATA Site # 1254 & 14271								
Sydney Laboratory - NATA Site # 18217					X	X	X	X
Brisbane Laboratory - NATA Site # 20794								
External Laboratory								
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**				
FC007 0.5	Jan 16, 2014		TCLP	S14-Ja13624	X	X	X	
FC012 0.5	Jan 16, 2014		TCLP	S14-Ja13625	X	X	X	X
FC013 0.0	Jan 16, 2014		TCLP	S14-Ja13626	X	X	X	X
FC013 4.0	Jan 16, 2014		TCLP	S14-Ja13627	X	X	X	X
FC013 6.5	Jan 16, 2014		TCLP	S14-Ja13628	X		X	X
FC014 1.0	Jan 16, 2014		TCLP	S14-Ja13629	X	X	X	X
FC014 2.0	Jan 16, 2014		TCLP	S14-Ja13630	X		X	X
FC014 5.0	Jan 16, 2014		TCLP	S14-Ja13631	X	X	X	
FC091 4.0	Jan 16, 2014		TCLP	S14-Ja13632	X	X	X	

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ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

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NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Sample Receipt Advice

Company name: **JBS & G (NSW & WA) Pty Ltd**

Contact name: Nathan Cussen
Client job number: ADDITIONAL: GREEN SQUARE BLOCK 5B 43182
COC number: Not provided
Turn around time: 5 Day
Date/Time received: Jan 28, 2014 9:03 AM
Eurofins | mgt reference: **406762**

Sample information

☑ A detailed list of analytes logged into our LIMS, is included in the attached summary table.

☑ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt Sample Receipt : 10.5 degrees Celsius.

☑ All samples have been received as described on the above COC.

☑ COC has been completed correctly.

☑ Attempt to chill was evident.

☑ Appropriately preserved sample containers have been used.

☑ All samples were received in good condition.

☑ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.

☑ Organic samples had Teflon liners.

☒ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Notes

Additional from 405944

Contact notes

If you have any questions with respect to these samples please contact:

Jean Heng on Phone : (+61) (2) 9900 8400 or by e.mail: JeanHeng@eurofins.com.au

Results will be delivered electronically via e.mail to Nathan Cussen - ncussen@jbsg.com.au.

Eurofins | mgt Sample Receipt

eurofins | mgt

Certificate of Analysis

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Nathan Cussen**

Report **406762-L**
Client Reference ADDITIONAL: GREEN SQUARE BLOCK 5B 43182
Received Date Jan 28, 2014

Client Sample ID **Sample Matrix** **Eurofins | mgt Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**FC007 0.5** **TCLP** **S14-Ja13624** **Jan 16, 2014**	**FC012 0.5** **TCLP** **S14-Ja13625** **Jan 16, 2014**	**FC013 0.0** **TCLP** **S14-Ja13626** **Jan 16, 2014**	**FC013 4.0** **TCLP** **S14-Ja13627** **Jan 16, 2014**
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.001	mg/L	0.002	0.017	< 0.001	< 0.001
Acenaphthylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	0.002
Anthracene	0.001	mg/L	0.002	0.006	0.001	0.001
Benz(a)anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(a)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(g.h.i)perylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(k)fluoranthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chrysene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dibenz(a.h)anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Fluoranthene	0.001	mg/L	0.002	0.004	0.002	0.002
Fluorene	0.001	mg/L	0.003	0.013	< 0.001	0.001
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Naphthalene	0.001	mg/L	0.014	0.034	< 0.001	0.004
Phenanthrene	0.001	mg/L	0.009	0.029	0.007	0.007
Pyrene	0.001	mg/L	0.002	0.003	0.001	0.002
Total PAH	0.002	mg/L	0.034	0.11	0.011	0.019
2-Fluorobiphenyl (surr.)	1	%	105	78	70	96
p-Terphenyl-d14 (surr.)	1	%	123	89	72	121
Heavy Metals						
Arsenic	0.01	mg/L	-	< 0.01	< 0.01	< 0.01
Cadmium	0.005	mg/L	-	< 0.005	0.029	0.023
Chromium	0.05	mg/L	-	< 0.05	< 0.05	< 0.05
Copper	0.05	mg/L	-	< 0.05	5.7	0.88
Lead	0.01	mg/L	-	0.24	3.5	0.20
Mercury	0.001	mg/L	-	< 0.001	< 0.001	< 0.001
Nickel	0.05	mg/L	-	< 0.05	0.17	0.23
Zinc	0.05	mg/L	-	0.25	9.9	13
% Moisture	0.1	%	4.7	5.3	2.6	9.9
Toxicity Characteristic Leaching Procedure (TCLP)						
Leachate Fluid[C01]		comment	1.0	1.0	1.0	1.0
pH (TCLP - HCl addition)	0.1	units	1.9	1.7	1.9	1.7
pH (TCLP - initial)	0.1	units	8.4	8.9	8.6	8.5
pH (TCLP - off)	0.1	units	5.0	6.0	5.1	6.6

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC013 6.5 TCLP S14-Ja13628 Jan 16, 2014	FC014 1.0 TCLP S14-Ja13629 Jan 16, 2014	FC014 2.0 TCLP S14-Ja13630 Jan 16, 2014	FC014 5.0 TCLP S14-Ja13631 Jan 16, 2014
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.001	mg/L	-	< 0.001	-	0.001
Acenaphthylene	0.001	mg/L	-	< 0.001	-	< 0.001
Anthracene	0.001	mg/L	-	< 0.001	-	< 0.001
Benz(a)anthracene	0.001	mg/L	-	< 0.001	-	< 0.001
Benzo(a)pyrene	0.001	mg/L	-	< 0.001	-	< 0.001
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	-	< 0.001	-	< 0.001
Benzo(g.h.i)perylene	0.001	mg/L	-	< 0.001	-	< 0.001
Benzo(k)fluoranthene	0.001	mg/L	-	< 0.001	-	< 0.001
Chrysene	0.001	mg/L	-	< 0.001	-	< 0.001
Dibenz(a.h)anthracene	0.001	mg/L	-	< 0.001	-	< 0.001
Fluoranthene	0.001	mg/L	-	< 0.001	-	0.004
Fluorene	0.001	mg/L	-	< 0.001	-	< 0.001
Indeno(1.2.3-cd)pyrene	0.001	mg/L	-	< 0.001	-	< 0.001
Naphthalene	0.001	mg/L	-	< 0.001	-	< 0.001
Phenanthrene	0.001	mg/L	-	0.001	-	0.001
Pyrene	0.001	mg/L	-	< 0.001	-	0.003
Total PAH	0.002	mg/L	-	0.001	-	0.009
2-Fluorobiphenyl (surr.)	1	%	-	82	-	96
p-Terphenyl-d14 (surr.)	1	%	-	107	-	126
Heavy Metals						
Arsenic	0.01	mg/L	0.04	< 0.01	0.02	-
Cadmium	0.005	mg/L	0.021	< 0.005	0.005	-
Chromium	0.05	mg/L	< 0.05	< 0.05	< 0.05	-
Copper	0.05	mg/L	0.33	0.10	0.53	-
Lead	0.01	mg/L	0.65	0.46	2.1	-
Mercury	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Nickel	0.05	mg/L	0.21	< 0.05	0.11	-
Zinc	0.05	mg/L	11	1.1	7.1	-
% Moisture	0.1	%	23	22	6.3	12
Toxicity Characteristic Leaching Procedure (TCLP)						
Leachate Fluid[C01]		comment	1.0	1.0	1.0	1.0
pH (TCLP - HCl addition)	0.1	units	1.4	1.9	1.9	1.8
pH (TCLP - initial)	0.1	units	8.6	8.0	7.5	7.9
pH (TCLP - off)	0.1	units	5.9	5.5	5.2	5.1

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC091 4.0 TCLP S14-Ja13632 Jan 16, 2014
Polycyclic Aromatic Hydrocarbons			
Acenaphthene	0.001	mg/L	< 0.001
Acenaphthylene	0.001	mg/L	< 0.001
Anthracene	0.001	mg/L	< 0.001
Benz(a)anthracene	0.001	mg/L	< 0.001
Benzo(a)pyrene	0.001	mg/L	< 0.001
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	< 0.001

Client Sample ID			FC091 4.0
Sample Matrix			**TCLP**
Eurofins | mgt Sample No.			**S14-Ja13632**
Date Sampled			**Jan 16, 2014**
Test/Reference	LOR	Unit	
Polycyclic Aromatic Hydrocarbons			
Benzo(g.h.i)perylene	0.001	mg/L	< 0.001
Benzo(k)fluoranthene	0.001	mg/L	< 0.001
Chrysene	0.001	mg/L	< 0.001
Dibenz(a.h)anthracene	0.001	mg/L	< 0.001
Fluoranthene	0.001	mg/L	0.002
Fluorene	0.001	mg/L	0.001
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001
Naphthalene	0.001	mg/L	0.001
Phenanthrene	0.001	mg/L	0.005
Pyrene	0.001	mg/L	0.001
Total PAH	0.002	mg/L	0.010
2-Fluorobiphenyl (surr.)	1	%	102
p-Terphenyl-d14 (surr.)	1	%	121
% Moisture	0.1	%	10
Toxicity Characteristic Leaching Procedure (TCLP)			
Leachate Fluid[C01]		comment	1.0
pH (TCLP - HCl addition)	0.1	units	1.9
pH (TCLP - initial)	0.1	units	8.8
pH (TCLP - off)	0.1	units	5.1

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Polycyclic Aromatic Hydrocarbons	Sydney	Jan 30, 2014	7 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Metals M8	Sydney	Jan 28, 2014	28 Day
- Method: E022 Acid Extractable metals in Soils & E026 Mercury			
% Moisture	Sydney	Jan 28, 2014	0 Day
- Method: E005 Moisture Content			
Toxicity Characteristic Leaching Procedure (TCLP)	Sydney	Jan 28, 2014	0 Day
- Method: E019 TCLP Preparation			

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NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: ADDITIONAL: GREEN SQUARE BLOCK 5B 43182

Order No.:
Report #: 406762
Phone: 02 8245 0300
Fax:

Received: Jan 28, 2014 9:03 AM
Due: Feb 4, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Polycyclic Aromatic Hydrocarbons	Toxicity Characteristic Leaching Procedure (TCLP)	Metals M8
Laboratory where analysis is conducted								
Melbourne Laboratory - NATA Site # 1254 & 14271								
Sydney Laboratory - NATA Site # 18217					X	X	X	X
Brisbane Laboratory - NATA Site # 20794								
External Laboratory								
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**				
FC007 0.5	Jan 16, 2014		TCLP	S14-Ja13624	X	X	X	
FC012 0.5	Jan 16, 2014		TCLP	S14-Ja13625	X	X	X	X
FC013 0.0	Jan 16, 2014		TCLP	S14-Ja13626	X	X	X	X
FC013 4.0	Jan 16, 2014		TCLP	S14-Ja13627	X	X	X	X
FC013 6.5	Jan 16, 2014		TCLP	S14-Ja13628	X		X	X
FC014 1.0	Jan 16, 2014		TCLP	S14-Ja13629	X	X	X	X
FC014 2.0	Jan 16, 2014		TCLP	S14-Ja13630	X		X	X
FC014 5.0	Jan 16, 2014		TCLP	S14-Ja13631	X	X	X	
FC091 4.0	Jan 16, 2014		TCLP	S14-Ja13632	X	X	X	

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/L	< 0.001			0.001	Pass	
Acenaphthylene	mg/L	< 0.001			0.001	Pass	
Anthracene	mg/L	< 0.001			0.001	Pass	
Benz(a)anthracene	mg/L	< 0.001			0.001	Pass	
Benzo(a)pyrene	mg/L	< 0.001			0.001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.001			0.001	Pass	
Benzo(g.h.i)perylene	mg/L	< 0.001			0.001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.001			0.001	Pass	
Chrysene	mg/L	< 0.001			0.001	Pass	
Dibenz(a.h)anthracene	mg/L	< 0.001			0.001	Pass	
Fluoranthene	mg/L	< 0.001			0.001	Pass	
Fluorene	mg/L	< 0.001			0.001	Pass	
Indeno(1.2.3-cd)pyrene	mg/L	< 0.001			0.001	Pass	
Naphthalene	mg/L	< 0.001			0.001	Pass	
Phenanthrene	mg/L	< 0.001			0.001	Pass	
Pyrene	mg/L	< 0.001			0.001	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.01			0.01	Pass	
Cadmium	mg/L	< 0.005			0.005	Pass	
Chromium	mg/L	< 0.05			0.05	Pass	
Copper	mg/L	< 0.05			0.05	Pass	
Lead	mg/L	< 0.01			0.01	Pass	
Mercury	mg/L	< 0.001			0.001	Pass	
Nickel	mg/L	< 0.05			0.05	Pass	
Zinc	mg/L	< 0.05			0.05	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S14-Ja13630	CP	%	100			70-130	Pass	
Cadmium	S14-Ja13630	CP	%	101			70-130	Pass	
Chromium	S14-Ja13630	CP	%	100			70-130	Pass	
Copper	S14-Ja13630	CP	%	92			70-130	Pass	
Lead	S14-Ja13630	CP	%	89			70-130	Pass	
Mercury	S14-Ja13630	CP	%	93			70-130	Pass	
Nickel	S14-Ja13630	CP	%	93			70-130	Pass	
Zinc	S14-Ja13630	CP	%	108			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S14-Ja13629	CP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Cadmium	S14-Ja13629	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Chromium	S14-Ja13629	CP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Copper	S14-Ja13629	CP	mg/L	0.10	0.09	7.0	30%	Pass	
Lead	S14-Ja13629	CP	mg/L	0.46	0.45	3.0	30%	Pass	
Mercury	S14-Ja13629	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Nickel	S14-Ja13629	CP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Zinc	S14-Ja13629	CP	mg/L	1.1	1.0	5.0	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
C01	Leachate Fluid Key: 1 - pH 5.0, 2 - pH 2.9, 3 - pH 9.2, 4 - Reagent (DI) water, 5 - Client sample, 6 - other
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs

Authorised By

Jean Heng	Client Services
James Norford	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)

Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

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Jasmine 28/01/14 9:03am

From: Nathan Cussen[SMTP:NCUSSEN@JBSG.COM.AU]
Sent: Tuesday, January 28, 2014 8:54:46 AM
To: Jean Heng
Subject: Lab Batch 405944 Green Square Block 5B
Auto forwarded by a Rule

Hi Jean,

Could I please schedule the following TCLP analysis:

- FC007 0.5 PAH
- FC012 0.5 PAH/METALS
- FC013 0.0 PAH/METALS
- FC013 4.0 PAH/METALS
- FC013 6.5 METALS
- FC014 1.0 PAH/METALS
- FC014 2.0 METALS
- FC014 5.0 PAH
- FC091 4.0 PAH

#406762

Cheers,
Nathan

Nathan Cussen | Senior Environmental Consultant| JBS&G
Sydney | Melbourne | Adelaide | Perth | Brisbane
Level 1, 50 Margaret Street, Sydney NSW 2000
T: 02 8245 0300 | M: 0431 401 022| www.jbsg.com.au
Contaminated Land | Groundwater Remediation | Auditing and Compliance | Assessments and Approvals | Occupational Hygiene and Monitoring

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NATA # 1261
Site # 1254 & 14271

Sydney
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16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Order No.:
Report #: 406437
Phone: 02 8245 0300
Fax:

Received: Jan 23, 2014 10:13 AM
Due: Jan 31, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Client Job No.: ADDITIONAL: GREEN SQUARE DEVELOPMENT BLOCK 5B

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Asphalt*	Lead	Polycyclic Aromatic Hydrocarbons	Toxicity Characteristic Leaching Procedure (TCLP)	Metals M8
Laboratory where analysis is conducted										
Melbourne Laboratory - NATA Site # 1254 & 14271										
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794										
External Laboratory										
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**						
FC008 0.8-1.0	Jan 14, 2014		TCLP	S14-Ja10910	X			X	X	
FC010 0.2-0.3	Jan 14, 2014		TCLP	S14-Ja10911	X			X	X	
FC010 1.8-2.0	Jan 14, 2014		TCLP	S14-Ja10912	X			X	X	X
FC010 5.8-6.0	Jan 14, 2014		TCLP	S14-Ja10913	X	X	X	X	X	
FC011 0.2-0.3	Jan 14, 2014		TCLP	S14-Ja10914	X			X	X	X
FC011 0.8-1.0	Jan 14, 2014		TCLP	S14-Ja10915	X		X	X	X	
FC011 3.8-4.0	Jan 14, 2014		TCLP	S14-Ja10916	X			X	X	X
FC092 0.2-0.3	Jan 14, 2014		TCLP	S14-Ja10917	X		X	X	X	
FC092 5.8-6.0	Jan 14, 2014		TCLP	S14-Ja10918	X			X	X	
FC093 0.2-0.3	Jan 14, 2014		TCLP	S14-Ja10919	X	X		X	X	X

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ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

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Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F6, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name:	JBS & G (NSW & WA) Pty Ltd	**Order No.:**	
Address:	Level 1, 50 Margaret St Sydney NSW 2000	**Report #:**	406437
		Phone:	02 8245 0300
		Fax:	
Client Job No.:	ADDITIONAL: GREEN SQUARE DEVELOPMENT BLOCK 5B		

Received:	Jan 23, 2014 10:13 AM
Due:	Jan 31, 2014
Priority:	5 Day
Contact Name:	Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Asphalt*	Lead	Polycyclic Aromatic Hydrocarbons	Toxicity Characteristic Leaching Procedure (TCLP)	Metals M8
Laboratory where analysis is conducted										
Melbourne Laboratory - NATA Site # 1254 & 14271										
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794										
External Laboratory										
FC093 5.9-6.1	Jan 14, 2014		TCLP	S14-Ja10920	X			X	X	X
QC12	Jan 14, 2014		TCLP	S14-Ja10921	X				X	X

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ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

Melbourne
3-5 Kingston Town Close
Oakleigh Vic 3166
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F6, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Sample Receipt Advice

Company name: **JBS & G (NSW & WA) Pty Ltd**

Contact name: Nathan Cussen
Client job number: ADDITIONAL: GREEN SQUARE DEVELOPMENT BLOCK 5B
COC number: Not provided
Turn around time: 5 Day
Date/Time received: Jan 23, 2014 10:13 AM
Eurofins | mgt reference: **406437**

Sample information

☑ A detailed list of analytes logged into our LIMS, is included in the attached summary table.

☑ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt Sample Receipt : 11 degrees Celsius.

☑ All samples have been received as described on the above COC.

☑ COC has been completed correctly.

☑ Attempt to chill was evident.

☑ Appropriately preserved sample containers have been used.

☑ All samples were received in good condition.

☑ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.

☑ Organic samples had Teflon liners.

☑ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Notes

Additional from report 405724 | Coal Tar analysis conducted at Envirolab.

Contact notes

If you have any questions with respect to these samples please contact:

Jean Heng on Phone : (+61) (2) 9900 8400 or by e.mail: JeanHeng@eurofins.com.au

Results will be delivered electronically via e.mail to Nathan Cussen - ncussen@jbsg.com.au.

Eurofins | mgt Sample Receipt

eurofins | mgt

Certificate of Analysis

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Nathan Cussen**

Report **406437-L**
Client Reference ADDITIONAL: GREEN SQUARE DEVELOPMENT BLOCK 5B
Received Date Jan 23, 2014

Client Sample ID **Sample Matrix** **Eurofins | mgt Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**FC008 0.8-1.0** **TCLP** **S14-Ja10910** **Jan 14, 2014**	**FC010 0.2-0.3** **TCLP** **S14-Ja10911** **Jan 14, 2014**	**FC010 1.8-2.0** **TCLP** **S14-Ja10912** **Jan 14, 2014**	**FC010 5.8-6.0** **TCLP** **S14-Ja10913** **Jan 14, 2014**
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.001	mg/L	< 0.001	0.001	< 0.001	0.003
Acenaphthylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	0.001
Benz(a)anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(a)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(g.h.i)perylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(k)fluoranthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chrysene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dibenz(a.h)anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Fluoranthene	0.001	mg/L	< 0.001	0.002	< 0.001	0.002
Fluorene	0.001	mg/L	< 0.001	0.001	< 0.001	0.002
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Naphthalene	0.001	mg/L	< 0.001	0.001	< 0.001	0.001
Phenanthrene	0.001	mg/L	0.003	0.002	0.002	0.004
Pyrene	0.001	mg/L	< 0.001	0.002	< 0.001	0.001
Total PAH	0.002	mg/L	0.003	0.009	0.002	0.014
2-Fluorobiphenyl (surr.)	1	%	96	99	97	97
p-Terphenyl-d14 (surr.)	1	%	127	129	128	126
Heavy Metals						
Arsenic	0.01	mg/L	-	-	< 0.01	-
Cadmium	0.005	mg/L	-	-	0.012	-
Chromium	0.05	mg/L	-	-	< 0.05	-
Copper	0.05	mg/L	-	-	0.35	-
Lead	0.01	mg/L	-	-	0.50	2.7
Mercury	0.001	mg/L	-	-	< 0.001	-
Nickel	0.05	mg/L	-	-	0.08	-
Zinc	0.05	mg/L	-	-	3.1	-
% Moisture	0.1	%	6.2	5.0	27	25
Toxicity Characteristic Leaching Procedure (TCLP)						
Leachate Fluid[C01]		comment	1.0	1.0	1.0	1.0
pH (TCLP - HCl addition)	0.1	units	1.9	1.8	1.8	1.8
pH (TCLP - initial)	0.1	units	7.9	8.8	8.3	8.5
pH (TCLP - off)	0.1	units	5.0	5.0	5.2	5.2
Foreign Material - Type I						
Asphalt*			-	-	-	see attached

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC011 0.2-0.3 TCLP S14-Ja10914 Jan 14, 2014	FC011 0.8-1.0 TCLP S14-Ja10915 Jan 14, 2014	FC011 3.8-4.0 TCLP S14-Ja10916 Jan 14, 2014	FC092 0.2-0.3 TCLP S14-Ja10917 Jan 14, 2014
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.001	mg/L	0.002	0.003	0.003	0.003
Acenaphthylene	0.001	mg/L	0.001	< 0.001	< 0.001	0.004
Anthracene	0.001	mg/L	0.001	< 0.001	< 0.001	0.001
Benz(a)anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(a)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(g.h.i)perylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(k)fluoranthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chrysene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dibenz(a.h)anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Fluoranthene	0.001	mg/L	0.001	< 0.001	< 0.001	< 0.001
Fluorene	0.001	mg/L	0.002	0.001	0.001	0.004
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Naphthalene	0.001	mg/L	0.006	0.001	0.001	0.004
Phenanthrene	0.001	mg/L	0.006	0.002	0.002	0.005
Pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Total PAH	0.002	mg/L	0.019	0.007	0.007	0.021
2-Fluorobiphenyl (surr.)	1	%	87	101	98	106
p-Terphenyl-d14 (surr.)	1	%	115	127	130	126
Heavy Metals						
Arsenic	0.01	mg/L	< 0.01	-	0.07	-
Cadmium	0.005	mg/L	0.008	-	0.008	-
Chromium	0.05	mg/L	< 0.05	-	< 0.05	-
Copper	0.05	mg/L	1.2	-	0.20	-
Lead	0.01	mg/L	4.3	9.2	0.08	0.22
Mercury	0.001	mg/L	< 0.001	-	< 0.001	-
Nickel	0.05	mg/L	0.15	-	0.11	-
Zinc	0.05	mg/L	1.9	-	6.7	-
% Moisture	0.1	%	3.7	3.7	15	15
Toxicity Characteristic Leaching Procedure (TCLP)						
Leachate Fluid[C01]		comment	1.0	1.0	1.0	1.0
pH (TCLP - HCl addition)	0.1	units	1.8	1.8	1.8	1.8
pH (TCLP - initial)	0.1	units	8.6	7.7	8.3	8.2
pH (TCLP - off)	0.1	units	5.1	5.0	5.2	5.2

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC092 5.8-6.0 TCLP S14-Ja10918 Jan 14, 2014	FC093 0.2-0.3 TCLP S14-Ja10919 Jan 14, 2014	FC093 5.9-6.1 TCLP S14-Ja10920 Jan 14, 2014	QC12 TCLP S14-Ja10921 Jan 14, 2014
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Acenaphthylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Anthracene	0.001	mg/L	< 0.001	0.001	< 0.001	-
Benz(a)anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Benzo(a)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	< 0.001	< 0.001	< 0.001	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC092 5.8-6.0 TCLP S14-Ja10918 Jan 14, 2014	FC093 0.2-0.3 TCLP S14-Ja10919 Jan 14, 2014	FC093 5.9-6.1 TCLP S14-Ja10920 Jan 14, 2014	QC12 TCLP S14-Ja10921 Jan 14, 2014
Polycyclic Aromatic Hydrocarbons						
Benzo(g.h.i)perylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Benzo(k)fluoranthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Chrysene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Dibenz(a.h)anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Fluoranthene	0.001	mg/L	< 0.001	0.002	< 0.001	-
Fluorene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Naphthalene	0.001	mg/L	< 0.001	< 0.001	0.001	-
Phenanthrene	0.001	mg/L	0.001	0.006	0.001	-
Pyrene	0.001	mg/L	< 0.001	0.002	0.001	-
Total PAH	0.002	mg/L	0.001	0.011	0.003	-
2-Fluorobiphenyl (surr.)	1	%	98	92	103	-
p-Terphenyl-d14 (surr.)	1	%	130	125	129	-
Heavy Metals						
Arsenic	0.01	mg/L	-	< 0.01	< 0.01	0.04
Cadmium	0.005	mg/L	-	0.010	0.006	0.026
Chromium	0.05	mg/L	-	< 0.05	< 0.05	< 0.05
Copper	0.05	mg/L	-	0.23	0.07	0.84
Lead	0.01	mg/L	-	0.40	1.1	0.64
Mercury	0.001	mg/L	-	< 0.001	< 0.001	< 0.001
Nickel	0.05	mg/L	-	< 0.05	< 0.05	0.23
Zinc	0.05	mg/L	-	1.6	4.5	9.8
% Moisture	0.1	%	8.3	4.9	11	6.0
Toxicity Characteristic Leaching Procedure (TCLP)						
Leachate Fluid[C01]		comment	1.0	1.0	1.0	1.0
pH (TCLP - HCl addition)	0.1	units	1.8	1.8	1.8	1.8
pH (TCLP - initial)	0.1	units	8.1	8.6	8.5	8.6
pH (TCLP - off)	0.1	units	5.0	5.1	5.2	6.0
Foreign Material - Type I						
Asphalt*			-	see attached	-	-

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Polycyclic Aromatic Hydrocarbons	Sydney	Jan 29, 2014	7 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Metals M8	Sydney	Jan 28, 2014	28 Day
- Method: E022 Acid Extractable metals in Soils & E026 Mercury			
Heavy Metals	Sydney	Jan 28, 2014	180 Day
- Method: E022 Acid Extractable metals in Soils			
% Moisture	Sydney	Jan 28, 2014	0 Day
- Method: E005 Moisture Content			
Toxicity Characteristic Leaching Procedure (TCLP)	Sydney	Jan 28, 2014	0 Day
- Method: E019 TCLP Preparation			
Foreign Material - Type I	Sydney	Jan 23, 2014	0 Day
- Method: RTA Method T276			

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Melbourne
3-5 Kingston Town Close
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NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Order No.:
Report #: 406437
Phone: 02 8245 0300
Fax:

Received: Jan 23, 2014 10:13 AM
Due: Jan 31, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Client Job No.: ADDITIONAL: GREEN SQUARE DEVELOPMENT BLOCK 5B

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Asphalt*	Lead	Polycyclic Aromatic Hydrocarbons	Toxicity Characteristic Leaching Procedure (TCLP)	Metals M8
Laboratory where analysis is conducted										
Melbourne Laboratory - NATA Site # 1254 & 14271										
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794										
External Laboratory										
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**						
FC008 0.8-1.0	Jan 14, 2014		TCLP	S14-Ja10910	X			X	X	
FC010 0.2-0.3	Jan 14, 2014		TCLP	S14-Ja10911	X			X	X	
FC010 1.8-2.0	Jan 14, 2014		TCLP	S14-Ja10912	X			X	X	X
FC010 5.8-6.0	Jan 14, 2014		TCLP	S14-Ja10913	X	X	X	X	X	
FC011 0.2-0.3	Jan 14, 2014		TCLP	S14-Ja10914	X			X	X	X
FC011 0.8-1.0	Jan 14, 2014		TCLP	S14-Ja10915	X		X	X	X	
FC011 3.8-4.0	Jan 14, 2014		TCLP	S14-Ja10916	X			X	X	X
FC092 0.2-0.3	Jan 14, 2014		TCLP	S14-Ja10917	X		X	X	X	
FC092 5.8-6.0	Jan 14, 2014		TCLP	S14-Ja10918	X			X	X	
FC093 0.2-0.3	Jan 14, 2014		TCLP	S14-Ja10919	X	X		X	X	X

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Received: Jan 23, 2014 10:13 AM
Due: Jan 31, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Asphalt*	Lead	Polycyclic Aromatic Hydrocarbons	Toxicity Characteristic Leaching Procedure (TCLP)	Metals M8
Laboratory where analysis is conducted										
Melbourne Laboratory - NATA Site # 1254 & 14271										
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794										
External Laboratory										
FC093 5.9-6.1	Jan 14, 2014		TCLP	S14-Ja10920	X			X	X	X
QC12	Jan 14, 2014		TCLP	S14-Ja10921	X				X	X

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/L	< 0.001			0.001	Pass	
Acenaphthylene	mg/L	< 0.001			0.001	Pass	
Anthracene	mg/L	< 0.001			0.001	Pass	
Benz(a)anthracene	mg/L	< 0.001			0.001	Pass	
Benzo(a)pyrene	mg/L	< 0.001			0.001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.001			0.001	Pass	
Benzo(g.h.i)perylene	mg/L	< 0.001			0.001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.001			0.001	Pass	
Chrysene	mg/L	< 0.001			0.001	Pass	
Dibenz(a.h)anthracene	mg/L	< 0.001			0.001	Pass	
Fluoranthene	mg/L	< 0.001			0.001	Pass	
Fluorene	mg/L	< 0.001			0.001	Pass	
Indeno(1.2.3-cd)pyrene	mg/L	< 0.001			0.001	Pass	
Naphthalene	mg/L	< 0.001			0.001	Pass	
Phenanthrene	mg/L	< 0.001			0.001	Pass	
Pyrene	mg/L	< 0.001			0.001	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.01			0.01	Pass	
Cadmium	mg/L	< 0.005			0.005	Pass	
Chromium	mg/L	< 0.05			0.05	Pass	
Copper	mg/L	< 0.05			0.05	Pass	
Lead	mg/L	< 0.01			0.01	Pass	
Mercury	mg/L	< 0.001			0.001	Pass	
Nickel	mg/L	< 0.05			0.05	Pass	
Zinc	mg/L	< 0.05			0.05	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S14-Ja11002	NCP	%	73			70-130	Pass	
Acenaphthylene	S14-Ja11002	NCP	%	68			70-130	Fail	Q08
Anthracene	S14-Ja11002	NCP	%	72			70-130	Pass	
Benz(a)anthracene	S14-Ja11002	NCP	%	74			70-130	Pass	
Benzo(a)pyrene	S14-Ja11002	NCP	%	84			70-130	Pass	
Benzo(b&j)fluoranthene	S14-Ja11002	NCP	%	85			70-130	Pass	
Benzo(g.h.i)perylene	S14-Ja11002	NCP	%	79			70-130	Pass	
Benzo(k)fluoranthene	S14-Ja11002	NCP	%	72			70-130	Pass	
Chrysene	S14-Ja11002	NCP	%	74			70-130	Pass	
Dibenz(a.h)anthracene	S14-Ja11002	NCP	%	78			70-130	Pass	
Fluoranthene	S14-Ja11002	NCP	%	71			70-130	Pass	
Fluorene	S14-Ja11002	NCP	%	76			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja11002	NCP	%	77			70-130	Pass	
Naphthalene	S14-Ja11002	NCP	%	77			70-130	Pass	
Phenanthrene	S14-Ja11002	NCP	%	72			70-130	Pass	
Pyrene	S14-Ja11002	NCP	%	72			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Zinc	S14-Ja10939	NCP	%	83			70-130	Pass	
Spike - % Recovery									

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Heavy Metals				Result 1					
Arsenic	S14-Ja10921	CP	%	97			70-130	Pass	
Cadmium	S14-Ja10921	CP	%	96			70-130	Pass	
Chromium	S14-Ja10921	CP	%	95			70-130	Pass	
Copper	S14-Ja10921	CP	%	90			70-130	Pass	
Lead	S14-Ja10921	CP	%	84			70-130	Pass	
Mercury	S14-Ja10921	CP	%	94			70-130	Pass	
Nickel	S14-Ja10921	CP	%	88			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S14-Ja11001	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Acenaphthylene	S14-Ja11001	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Anthracene	S14-Ja11001	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benz(a)anthracene	S14-Ja11001	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(a)pyrene	S14-Ja11001	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(b&j)fluoranthene	S14-Ja11001	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(g.h.i)perylene	S14-Ja11001	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(k)fluoranthene	S14-Ja11001	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chrysene	S14-Ja11001	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibenz(a.h)anthracene	S14-Ja11001	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluoranthene	S14-Ja11001	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluorene	S14-Ja11001	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja11001	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Naphthalene	S14-Ja11001	NCP	mg/L	0.0060	0.0060	1.0	30%	Pass	
Phenanthrene	S14-Ja11001	NCP	mg/L	0.0010	0.0010	3.0	30%	Pass	
Pyrene	S14-Ja11001	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S14-Ja10920	CP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Cadmium	S14-Ja10920	CP	mg/L	0.006	0.006	1.0	30%	Pass	
Chromium	S14-Ja10920	CP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Copper	S14-Ja10920	CP	mg/L	0.07	0.07	1.0	30%	Pass	
Lead	S14-Ja10920	CP	mg/L	1.1	1.1	<1	30%	Pass	
Mercury	S14-Ja10920	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Nickel	S14-Ja10920	CP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Zinc	S14-Ja10920	CP	mg/L	4.5	4.5	<1	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	Yes

Qualifier Codes/Comments

Code	Description
C01	Leachate Fluid Key: 1 - pH 5.0, 2 - pH 2.9, 3 - pH 9.2, 4 - Reagent (DI) water, 5 - Client sample, 6 - other
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q08	The matrix spike recovery is outside of the recommended acceptance criteria. An acceptable recovery was obtained for the laboratory control sample indicating a sample matrix interference

Authorised By

Jean Heng	Client Services
James Norford	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)

Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

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Jasmine 23/01/14 10:15am

#406437

From: Nathan Cussen [mailto:NCussen@jbsg.com.au]
Sent: Thursday, 23 January 2014 10:13 AM
To: Jean Heng
Subject: Lab Batch 405724 - Green Square Block 5B

Hi Jean,

Could I please schedule the following TCLP analysis:

- FC008 0.8-1.0 PAH
- FC010 0.2-0.3 PAH
- FC010 1.8-2.0 PAH & METALS
- FC010 5.8-6.0 PAH & LEAD (Could I also schedule coal tar analysis please)
- FC011 0.2-0.3 PAH & METALS
- FC011 0.8-1.0 PAH & LEAD
- FC011 3.8-4.0 PAH & METALS
- FC092 0.2-0.3 PAH & LEAD
- FC092 5.8-6.0 PAH
- FC093 0.2-0.3 PAH & METALS (Could I also schedule coal tar analysis please)
- FC093 5.9-6.1 PAH & METALS
- QC12 METALS

Cheers,
Nathan

Nathan Cussen | Senior Environmental Consultant| JBS&G
Sydney | Melbourne | Adelaide | Perth | Brisbane
Level 1, 50 Margaret Street, Sydney NSW 2000
T: 02 8245 0300 | M: 0431 401 022| www.jbsg.com.au
Contaminated Land | Groundwater Remediation | Auditing and Compliance | Assessments and Approvals | Occupational Hygiene and Monitoring

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NATA # 1261 Site # 18217

Brisbane
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Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: GREEN SQUARE BLOCK JB 43182

Order No.:
Report #: 405944
Phone: 02 8245 0300
Fax:

Received: Jan 17, 2014 1:35 PM
Due: Jan 24, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Total Recoverable Hydrocarbons	Volatile Organics	JBS&G Suite 2
Laboratory where analysis is conducted														
Melbourne Laboratory - NATA Site # 1254 & 14271														
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
External Laboratory														
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**										
FC007 0.0	Jan 16, 2014		Soil	S14-Ja07780			X							
FC007 0.5	Jan 16, 2014		Soil	S14-Ja07781	X	X		X	X	X		X		
FC007 1.0	Jan 16, 2014		Soil	S14-Ja07782			X							
FC007 2.0	Jan 16, 2014		Soil	S14-Ja07783	X					X		X	X	
FC007 3.0	Jan 16, 2014		Soil	S14-Ja07784			X							
FC007 4.0	Jan 16, 2014		Soil	S14-Ja07785			X							
FC007 5.5	Jan 16, 2014		Soil	S14-Ja07786	X	X		X	X	X		X		
FC007 6.5	Jan 16, 2014		Soil	S14-Ja07787			X							
FC012 0.0	Jan 16, 2014		Soil	S14-Ja07788			X							
FC012 0.5	Jan 16, 2014		Soil	S14-Ja07789	X	X		X						X

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Laboratory where analysis is conducted														
Melbourne Laboratory - NATA Site # 1254 & 14271														
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
External Laboratory														
FC012 1.0	Jan 16, 2014		Soil	S14-Ja07790			X							
FC012 2.0	Jan 16, 2014		Soil	S14-Ja07791			X							
FC012 3.0	Jan 16, 2014		Soil	S14-Ja07792	X	X		X	X	X		X		
FC012 4.0	Jan 16, 2014		Soil	S14-Ja07793	X	X		X	X	X		X		
FC012 5.5	Jan 16, 2014		Soil	S14-Ja07794			X							
FC013 0.0	Jan 16, 2014		Soil	S14-Ja07795	X	X		X						X
FC013 1.0	Jan 16, 2014		Soil	S14-Ja07796			X							
FC013 2.0	Jan 16, 2014		Soil	S14-Ja07797			X							
FC013 3.0	Jan 16, 2014		Soil	S14-Ja07798			X							
FC013 4.0	Jan 16, 2014		Soil	S14-Ja07799	X	X		X	X	X		X		
FC013 5.0	Jan 16, 2014		Soil	S14-Ja07800			X							

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Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Total Recoverable Hydrocarbons	Volatile Organics	JBS&G Suite 2
Laboratory where analysis is conducted														
Melbourne Laboratory - NATA Site # 1254 & 14271														
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
External Laboratory														
FC013 6.5	Jan 16, 2014		Soil	S14-Ja07801	X	X		X	X	X		X		
FC014 0.0	Jan 16, 2014		Soil	S14-Ja07802			X							
FC014 1.0	Jan 16, 2014		Soil	S14-Ja07803	X	X		X	X	X		X		
FC014 2.0	Jan 16, 2014		Soil	S14-Ja07804	X	X		X						X
FC014 3.0	Jan 16, 2014		Soil	S14-Ja07805			X							
FC014 4.0	Jan 16, 2014		Soil	S14-Ja07806			X							
FC014 5.0	Jan 16, 2014		Soil	S14-Ja07807	X	X		X	X	X		X		
FC014 6.5	Jan 16, 2014		Soil	S14-Ja07808			X							
FC091 0.0	Jan 16, 2014		Soil	S14-Ja07809	X	X		X	X	X		X		
FC091 0.5	Jan 16, 2014		Soil	S14-Ja07810			X							
FC091 1.0	Jan 16, 2014		Soil	S14-Ja07811	X	X		X	X	X		X		

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Order No.:
Report #: 405944
Phone: 02 8245 0300
Fax:

Received: Jan 17, 2014 1:35 PM
Due: Jan 24, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Total Recoverable Hydrocarbons	Volatile Organics	JBS&G Suite 2
Laboratory where analysis is conducted														
Melbourne Laboratory - NATA Site # 1254 & 14271														
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
External Laboratory														
FC091 3.0	Jan 16, 2014		Soil	S14-Ja07812			X							
FC091 4.0	Jan 16, 2014		Soil	S14-Ja07813	X	X		X						X
FC091 5.5	Jan 16, 2014		Soil	S14-Ja07814			X							
FC091 6.5	Jan 16, 2014		Soil	S14-Ja07815			X							
QC19	Jan 16, 2014		Soil	S14-Ja07816	X									X
QC20	Jan 16, 2014		Soil	S14-Ja07817	X					X		X	X	
TRIP SPIKE (TS)	Jan 13, 2014		Water	S14-Ja07818							X			
TRIP BLANK (TB)	Jan 13, 2014		Water	S14-Ja07819							X			
RINSATE	Jan 16, 2014		Water	S14-Ja07820					X	X	X	X		
FC091 2.0	Jan 16, 2014		Soil	S14-Ja07883	X	X		X	X	X		X		

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NATA # 1261 Site # 20794

Sample Receipt Advice

Company name: **JBS & G (NSW & WA) Pty Ltd**

Contact name: Nathan Cussen
Client job number: GREEN SQUARE BLOCK JB 43182
COC number: Not provided
Turn around time: 5 Day
Date/Time received: Jan 17, 2014 1:35 PM
Eurofins | mgt reference: **405944**

Sample information

☑ A detailed list of analytes logged into our LIMS, is included in the attached summary table.

☑ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt Sample Receipt : 10.5 degrees Celsius.

☑ All samples have been received as described on the above COC.

☑ COC has been completed correctly.

☑ Attempt to chill was evident.

☑ Appropriately preserved sample containers have been used.

☑ All samples were received in good condition.

☑ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.

☑ Organic samples had Teflon liners.

☑ Sample containers for volatile analysis received with zero headspace.

☒ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Contact notes

If you have any questions with respect to these samples please contact:

Jean Heng on Phone : (+61) (2) 9900 8400 or by e.mail: JeanHeng@eurofins.com.au

Results will be delivered electronically via e.mail to Nathan Cussen - ncussen@jbsg.com.au.

Eurofins | mgt Sample Receipt

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Certificate of Analysis

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention: **Nathan Cussen**

Report **405944-W**
Client Reference GREEN SQUARE BLOCK JB 43182
Received Date Jan 17, 2014

Client Sample ID			TRIP SPIKE (TS)	TRIP BLANK (TB)	RINSATE
Sample Matrix			**Water**	**Water**	**Water**
Eurofins | mgt Sample No.			**S14-Ja07818**	**S14-Ja07819**	**S14-Ja07820**
Date Sampled			**Jan 13, 2014**	**Jan 13, 2014**	**Jan 16, 2014**
Test/Reference	LOR	Unit			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions					
TRH C6-C9	0.02	mg/L	-	-	< 0.02
TRH C10-C14	0.05	mg/L	-	-	< 0.05
TRH C15-C28	0.1	mg/L	-	-	< 0.1
TRH C29-C36	0.1	mg/L	-	-	< 0.1
TRH C10-36 (Total)	0.1	mg/L	-	-	< 0.1
BTEX					
Benzene	0.001	mg/L	104%	< 0.001	< 0.001
Toluene	0.001	mg/L	94%	< 0.001	< 0.001
Ethylbenzene	0.001	mg/L	99%	< 0.001	< 0.001
m&p-Xylenes	0.002	mg/L	97%	< 0.002	< 0.002
o-Xylene	0.001	mg/L	96%	< 0.001	< 0.001
Xylenes - Total	0.003	mg/L	97%	< 0.003	< 0.003
4-Bromofluorobenzene (surr.)	1	%	98	77	75
Total Recoverable Hydrocarbons - 2013 NEPM Fractions					
Naphthalene[N02]	0.02	mg/L	-	-	< 0.02
TRH C6-C10	0.02	mg/L	-	-	< 0.02
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	-	-	< 0.02
TRH >C10-C16	0.05	mg/L	-	-	< 0.05
TRH >C10-C16 less Naphthalene (F2)[N01]	0.05	mg/L	-	-	< 0.05
TRH >C16-C34	0.1	mg/L	-	-	< 0.1
TRH >C34-C40	0.1	mg/L	-	-	< 0.1
Polycyclic Aromatic Hydrocarbons					
Acenaphthene	0.001	mg/L	-	-	< 0.001
Acenaphthylene	0.001	mg/L	-	-	< 0.001
Anthracene	0.001	mg/L	-	-	< 0.001
Benz(a)anthracene	0.001	mg/L	-	-	< 0.001
Benzo(a)pyrene	0.001	mg/L	-	-	< 0.001
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	-	-	< 0.001
Benzo(g.h.i)perylene	0.001	mg/L	-	-	< 0.001
Benzo(k)fluoranthene	0.001	mg/L	-	-	< 0.001
Chrysene	0.001	mg/L	-	-	< 0.001
Dibenz(a.h)anthracene	0.001	mg/L	-	-	< 0.001
Fluoranthene	0.001	mg/L	-	-	< 0.001
Fluorene	0.001	mg/L	-	-	< 0.001
Indeno(1.2.3-cd)pyrene	0.001	mg/L	-	-	< 0.001
Naphthalene	0.001	mg/L	-	-	< 0.001

Client Sample ID			TRIP SPIKE (TS)	TRIP BLANK (TB)	RINSATE
Sample Matrix			**Water**	**Water**	**Water**
Eurofins | mgt Sample No.			**S14-Ja07818**	**S14-Ja07819**	**S14-Ja07820**
Date Sampled			**Jan 13, 2014**	**Jan 13, 2014**	**Jan 16, 2014**
Test/Reference	LOR	Unit			
Polycyclic Aromatic Hydrocarbons					
Phenanthrene	0.001	mg/L	-	-	< 0.001
Pyrene	0.001	mg/L	-	-	< 0.001
Total PAH	0.001	mg/L	-	-	< 0.001
2-Fluorobiphenyl (surr.)	1	%	-	-	91
p-Terphenyl-d14 (surr.)	1	%	-	-	107
Heavy Metals					
Arsenic	0.005	mg/L	-	-	< 0.005
Cadmium	0.0005	mg/L	-	-	< 0.0005
Chromium	0.005	mg/L	-	-	< 0.005
Copper	0.005	mg/L	-	-	< 0.005
Lead	0.005	mg/L	-	-	< 0.005
Mercury	0.0001	mg/L	-	-	< 0.0001
Nickel	0.005	mg/L	-	-	< 0.005
Zinc	0.005	mg/L	-	-	< 0.005

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Jan 21, 2014	7 Day
- Method: E004 Petroleum Hydrocarbons (TPH)			
BTEX	Sydney	Jan 20, 2014	14 Day
- Method: E029/E016 BTEX			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jan 21, 2014	7 Day
- Method: LM-LTM-ORG2010			
Polycyclic Aromatic Hydrocarbons	Sydney	Jan 21, 2014	7 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Metals M8	Sydney	Jan 20, 2014	28 Day
- Method: E022/E030 Unfiltered Metals in Water & E026 Mercury			

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NATA # 1261 Site # 18217

Brisbane
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Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: GREEN SQUARE BLOCK JB 43182

Order No.:
Report #: 405944
Phone: 02 8245 0300
Fax:

Received: Jan 17, 2014 1:35 PM
Due: Jan 24, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Total Recoverable Hydrocarbons	Volatile Organics	JBS&G Suite 2
Laboratory where analysis is conducted														
Melbourne Laboratory - NATA Site # 1254 & 14271														
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
External Laboratory														
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**										
FC007 0.0	Jan 16, 2014		Soil	S14-Ja07780			X							
FC007 0.5	Jan 16, 2014		Soil	S14-Ja07781	X	X		X	X	X		X		
FC007 1.0	Jan 16, 2014		Soil	S14-Ja07782			X							
FC007 2.0	Jan 16, 2014		Soil	S14-Ja07783	X					X		X	X	
FC007 3.0	Jan 16, 2014		Soil	S14-Ja07784			X							
FC007 4.0	Jan 16, 2014		Soil	S14-Ja07785			X							
FC007 5.5	Jan 16, 2014		Soil	S14-Ja07786	X	X		X	X	X		X		
FC007 6.5	Jan 16, 2014		Soil	S14-Ja07787			X							
FC012 0.0	Jan 16, 2014		Soil	S14-Ja07788			X							
FC012 0.5	Jan 16, 2014		Soil	S14-Ja07789	X	X		X						X

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Laboratory where analysis is conducted														
Melbourne Laboratory - NATA Site # 1254 & 14271														
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
External Laboratory														
FC012 1.0	Jan 16, 2014		Soil	S14-Ja07790			X							
FC012 2.0	Jan 16, 2014		Soil	S14-Ja07791			X							
FC012 3.0	Jan 16, 2014		Soil	S14-Ja07792	X	X		X	X	X		X		
FC012 4.0	Jan 16, 2014		Soil	S14-Ja07793	X	X		X	X	X		X		
FC012 5.5	Jan 16, 2014		Soil	S14-Ja07794			X							
FC013 0.0	Jan 16, 2014		Soil	S14-Ja07795	X	X		X						X
FC013 1.0	Jan 16, 2014		Soil	S14-Ja07796			X							
FC013 2.0	Jan 16, 2014		Soil	S14-Ja07797			X							
FC013 3.0	Jan 16, 2014		Soil	S14-Ja07798			X							
FC013 4.0	Jan 16, 2014		Soil	S14-Ja07799	X	X		X	X	X		X		
FC013 5.0	Jan 16, 2014		Soil	S14-Ja07800			X							

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Laboratory where analysis is conducted														
Melbourne Laboratory - NATA Site # 1254 & 14271														
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
External Laboratory														
FC013 6.5	Jan 16, 2014		Soil	S14-Ja07801	X	X		X	X	X		X		
FC014 0.0	Jan 16, 2014		Soil	S14-Ja07802			X							
FC014 1.0	Jan 16, 2014		Soil	S14-Ja07803	X	X		X	X	X		X		
FC014 2.0	Jan 16, 2014		Soil	S14-Ja07804	X	X		X						X
FC014 3.0	Jan 16, 2014		Soil	S14-Ja07805			X							
FC014 4.0	Jan 16, 2014		Soil	S14-Ja07806			X							
FC014 5.0	Jan 16, 2014		Soil	S14-Ja07807	X	X		X	X	X		X		
FC014 6.5	Jan 16, 2014		Soil	S14-Ja07808			X							
FC091 0.0	Jan 16, 2014		Soil	S14-Ja07809	X	X		X	X	X		X		
FC091 0.5	Jan 16, 2014		Soil	S14-Ja07810			X							
FC091 1.0	Jan 16, 2014		Soil	S14-Ja07811	X	X		X	X	X		X		

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Laboratory where analysis is conducted														
Melbourne Laboratory - NATA Site # 1254 & 14271														
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
External Laboratory														
FC091 3.0	Jan 16, 2014		Soil	S14-Ja07812			X							
FC091 4.0	Jan 16, 2014		Soil	S14-Ja07813	X	X		X						X
FC091 5.5	Jan 16, 2014		Soil	S14-Ja07814			X							
FC091 6.5	Jan 16, 2014		Soil	S14-Ja07815			X							
QC19	Jan 16, 2014		Soil	S14-Ja07816	X									X
QC20	Jan 16, 2014		Soil	S14-Ja07817	X					X		X	X	
TRIP SPIKE (TS)	Jan 13, 2014		Water	S14-Ja07818							X			
TRIP BLANK (TB)	Jan 13, 2014		Water	S14-Ja07819							X			
RINSATE	Jan 16, 2014		Water	S14-Ja07820					X	X	X	X		
FC091 2.0	Jan 16, 2014		Soil	S14-Ja07883	X	X		X	X	X		X		

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/L	< 0.02			0.02	Pass	
TRH C10-C14	mg/L	< 0.05			0.05	Pass	
TRH C15-C28	mg/L	< 0.1			0.1	Pass	
TRH C29-C36	mg/L	< 0.1			0.1	Pass	
Method Blank							
BTEX							
Benzene	mg/L	< 0.001			0.001	Pass	
Toluene	mg/L	< 0.001			0.001	Pass	
Ethylbenzene	mg/L	< 0.001			0.001	Pass	
m&p-Xylenes	mg/L	< 0.002			0.002	Pass	
o-Xylene	mg/L	< 0.001			0.001	Pass	
Xylenes - Total	mg/L	< 0.003			0.003	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/L	< 0.02			0.02	Pass	
TRH C6-C10	mg/L	< 0.02			0.02	Pass	
TRH C6-C10 less BTEX (F1)	mg/L	< 0.02			0.02	Pass	
TRH >C10-C16	mg/L	< 0.05			0.05	Pass	
TRH >C16-C34	mg/L	< 0.1			0.1	Pass	
TRH >C34-C40	mg/L	< 0.1			0.1	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/L	< 0.001			0.001	Pass	
Acenaphthylene	mg/L	< 0.001			0.001	Pass	
Anthracene	mg/L	< 0.001			0.001	Pass	
Benz(a)anthracene	mg/L	< 0.001			0.001	Pass	
Benzo(a)pyrene	mg/L	< 0.001			0.001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.001			0.001	Pass	
Benzo(g.h.i)perylene	mg/L	< 0.001			0.001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.001			0.001	Pass	
Chrysene	mg/L	< 0.001			0.001	Pass	
Dibenz(a.h)anthracene	mg/L	< 0.001			0.001	Pass	
Fluoranthene	mg/L	< 0.001			0.001	Pass	
Fluorene	mg/L	< 0.001			0.001	Pass	
Indeno(1.2.3-cd)pyrene	mg/L	< 0.001			0.001	Pass	
Naphthalene	mg/L	< 0.001			0.001	Pass	
Phenanthrene	mg/L	< 0.001			0.001	Pass	
Pyrene	mg/L	< 0.001			0.001	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.005			0.005	Pass	
Cadmium	mg/L	< 0.0005			0.0005	Pass	
Chromium	mg/L	< 0.005			0.005	Pass	
Copper	mg/L	< 0.005			0.005	Pass	
Lead	mg/L	< 0.005			0.005	Pass	
Mercury	mg/L	< 0.0001			0.0001	Pass	
Nickel	mg/L	< 0.005			0.005	Pass	
Zinc	mg/L	< 0.005			0.005	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
TRH C6-C9	%	111			70-130	Pass	
TRH C10-C14	%	90			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	111			70-130	Pass	
Toluene	%	103			70-130	Pass	
Ethylbenzene	%	109			70-130	Pass	
m&p-Xylenes	%	106			70-130	Pass	
o-Xylene	%	105			70-130	Pass	
Xylenes - Total	%	106			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	91			70-130	Pass	
TRH C6-C10	%	104			70-130	Pass	
TRH >C10-C16	%	95			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	82			70-130	Pass	
Acenaphthylene	%	83			70-130	Pass	
Anthracene	%	82			70-130	Pass	
Benz(a)anthracene	%	71			70-130	Pass	
Benzo(a)pyrene	%	85			70-130	Pass	
Benzo(b&j)fluoranthene	%	79			70-130	Pass	
Benzo(g.h.i)perylene	%	74			70-130	Pass	
Benzo(k)fluoranthene	%	88			70-130	Pass	
Chrysene	%	86			70-130	Pass	
Dibenz(a.h)anthracene	%	87			70-130	Pass	
Fluoranthene	%	83			70-130	Pass	
Fluorene	%	84			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	74			70-130	Pass	
Naphthalene	%	81			70-130	Pass	
Phenanthrene	%	82			70-130	Pass	
Pyrene	%	84			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	96			70-130	Pass	
Cadmium	%	100			70-130	Pass	
Chromium	%	98			70-130	Pass	
Copper	%	97			70-130	Pass	
Lead	%	96			70-130	Pass	
Mercury	%	98			70-130	Pass	
Nickel	%	96			70-130	Pass	
Zinc	%	106			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
BTEX				Result 1					
Benzene	S14-Ja07682	NCP	%	101			70-130	Pass	
Toluene	S14-Ja07682	NCP	%	90			70-130	Pass	
Ethylbenzene	S14-Ja07682	NCP	%	97			70-130	Pass	
m&p-Xylenes	S14-Ja07682	NCP	%	96			70-130	Pass	
o-Xylene	S14-Ja07682	NCP	%	94			70-130	Pass	
Xylenes - Total	S14-Ja07682	NCP	%	96			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
TRH C6-C9	S14-Ja07682	NCP	%	103			70-130	Pass	
TRH C10-C14	S14-Ja07861	NCP	%	89			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S14-Ja07682	NCP	%	76			70-130	Pass	
TRH C6-C10	S14-Ja07682	NCP	%	96			70-130	Pass	
TRH >C10-C16	S14-Ja07861	NCP	%	94			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S14-Ja07042	NCP	%	90			70-130	Pass	
Acenaphthylene	S14-Ja07042	NCP	%	88			70-130	Pass	
Anthracene	S14-Ja07042	NCP	%	84			70-130	Pass	
Benz(a)anthracene	S14-Ja07042	NCP	%	80			70-130	Pass	
Benzo(a)pyrene	S14-Ja07042	NCP	%	89			70-130	Pass	
Benzo(b&j)fluoranthene	S14-Ja07042	NCP	%	82			70-130	Pass	
Benzo(g.h.i)perylene	S14-Ja07042	NCP	%	86			70-130	Pass	
Benzo(k)fluoranthene	S14-Ja07042	NCP	%	92			70-130	Pass	
Chrysene	S14-Ja07042	NCP	%	91			70-130	Pass	
Dibenz(a.h)anthracene	S14-Ja07042	NCP	%	83			70-130	Pass	
Fluoranthene	S14-Ja07042	NCP	%	85			70-130	Pass	
Fluorene	S14-Ja07042	NCP	%	92			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja07042	NCP	%	81			70-130	Pass	
Naphthalene	S14-Ja07042	NCP	%	99			70-130	Pass	
Phenanthrene	S14-Ja07042	NCP	%	83			70-130	Pass	
Pyrene	S14-Ja07042	NCP	%	85			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Chromium	S14-Ja07524	NCP	%	96			70-130	Pass	
Copper	S14-Ja07524	NCP	%	93			70-130	Pass	
Lead	S14-Ja07524	NCP	%	89			70-130	Pass	
Mercury	S14-Ja07524	NCP	%	72			70-130	Pass	
Nickel	S14-Ja07524	NCP	%	93			70-130	Pass	
Zinc	S14-Ja07524	NCP	%	106			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S14-Ja07157	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Toluene	S14-Ja07157	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Ethylbenzene	S14-Ja07157	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
m&p-Xylenes	S14-Ja07157	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
o-Xylene	S14-Ja07157	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Xylenes - Total	S14-Ja07157	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S14-Ja07157	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH C10-C14	S14-Ja07863	NCP	mg/L	0.060	0.080	29	30%	Pass	
TRH C15-C28	S14-Ja07863	NCP	mg/L	0.30	0.30	15	30%	Pass	
TRH C29-C36	S14-Ja07863	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S14-Ja07157	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH C6-C10	S14-Ja07157	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S14-Ja07157	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH >C10-C16	S14-Ja07863	NCP	mg/L	0.090	0.14	43	30%	Fail	

Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
TRH >C16-C34	S14-Ja07863	NCP	mg/L	0.30	0.29	11	30%	Pass	
TRH >C34-C40	S14-Ja07863	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S14-Ja07863	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Acenaphthylene	S14-Ja07863	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Anthracene	S14-Ja07863	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benz(a)anthracene	S14-Ja07863	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(a)pyrene	S14-Ja07863	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(b&j)fluoranthene	S14-Ja07863	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(g.h.i)perylene	S14-Ja07863	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(k)fluoranthene	S14-Ja07863	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chrysene	S14-Ja07863	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibenz(a.h)anthracene	S14-Ja07863	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluoranthene	S14-Ja07863	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluorene	S14-Ja07863	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja07863	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Naphthalene	S14-Ja07863	NCP	mg/L	0.0010	0.0010	<1	30%	Pass	
Phenanthrene	S14-Ja07863	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Pyrene	S14-Ja07863	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M14-Ja06033	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Cadmium	M14-Ja06033	NCP	mg/L	0.0050	0.0050	<1	30%	Pass	
Chromium	M14-Ja06033	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Copper	M14-Ja06033	NCP	mg/L	0.083	0.082	2.0	30%	Pass	
Lead	M14-Ja06033	NCP	mg/L	0.027	0.026	5.0	30%	Pass	
Mercury	M14-Ja06033	NCP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel	M14-Ja06033	NCP	mg/L	0.20	0.20	2.0	30%	Pass	
Zinc	M14-Ja06033	NCP	mg/L	0.98	0.96	2.0	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs

Authorised By

Jean Heng	Client Services
James Norford	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)
Ryan Hamilton	Senior Analyst-Volatile (NSW)

Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

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Certificate of Analysis

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Nathan Cussen**

Report **405944-S**
Client Reference GREEN SQUARE BLOCK JB 43182
Received Date Jan 17, 2014

Client Sample ID **Sample Matrix** **Eurofins | mgt Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**FC007 0.5** **Soil** **S14-Ja07781** **Jan 16, 2014**	**FC007 2.0** **Soil** **S14-Ja07783** **Jan 16, 2014**	**FC007 5.5** **Soil** **S14-Ja07786** **Jan 16, 2014**	**FC012 0.5** **Soil** **S14-Ja07789** **Jan 16, 2014**
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	44	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	110	< 20	< 20	30
TRH C15-C28	50	mg/kg	2700	< 50	81	1300
TRH C29-C36	50	mg/kg	5600	< 50	100	1000
TRH C10-36 (Total)	50	mg/kg	8400	< 50	180	2300
BTEX						
Benzene	0.1	mg/kg	-	-	-	< 0.1
Toluene	0.1	mg/kg	-	-	-	< 0.1
Ethylbenzene	0.1	mg/kg	-	-	-	< 0.1
m&p-Xylenes	0.2	mg/kg	-	-	-	< 0.2
o-Xylene	0.1	mg/kg	-	-	-	< 0.1
Xylenes - Total	0.3	mg/kg	-	-	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	-	-	93
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	3.4	< 0.5	< 0.5	2.8
TRH C6-C10	20	mg/kg	46	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	46	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	160	< 50	< 50	80
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	160	< 50	< 50	77
TRH >C16-C34	100	mg/kg	7400	< 100	160	2100
TRH >C34-C40	100	mg/kg	3900	< 100	< 100	860
Volatile Organics						
1.1-Dichloroethane	0.05	mg/kg	-	< 0.05	-	-
1.1-Dichloroethene	0.05	mg/kg	-	< 0.05	-	-
1.1.1-Trichloroethane	0.05	mg/kg	-	< 0.05	-	-
1.1.1.2-Tetrachloroethane	0.05	mg/kg	-	< 0.05	-	-
1.1.2-Trichloroethane	0.05	mg/kg	-	< 0.05	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dibromoethane	0.05	mg/kg	-	< 0.05	-	-
1.2-Dichlorobenzene	0.05	mg/kg	-	< 0.05	-	-
1.2-Dichloroethane	0.05	mg/kg	-	< 0.05	-	-
1.2-Dichloropropane	0.05	mg/kg	-	< 0.05	-	-
1.2.3-Trichloropropane	0.05	mg/kg	-	< 0.05	-	-
1.2.4-Trimethylbenzene	0.05	mg/kg	-	< 0.05	-	-
1.3-Dichlorobenzene	0.05	mg/kg	-	< 0.05	-	-
1.3-Dichloropropane	0.05	mg/kg	-	< 0.05	-	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC007 0.5 Soil S14-Ja07781 Jan 16, 2014	FC007 2.0 Soil S14-Ja07783 Jan 16, 2014	FC007 5.5 Soil S14-Ja07786 Jan 16, 2014	FC012 0.5 Soil S14-Ja07789 Jan 16, 2014
Volatile Organics						
1.3.5-Trimethylbenzene	0.05	mg/kg	-	< 0.05	-	-
1.4-Dichlorobenzene	0.05	mg/kg	-	< 0.05	-	-
2-Butanone (MEK)	0.05	mg/kg	-	< 0.05	-	-
4-Chlorotoluene	0.05	mg/kg	-	< 0.05	-	-
4-Methyl-2-pentanone (MIBK)	0.05	mg/kg	-	< 0.05	-	-
Benzene	0.1	mg/kg	-	< 0.1	-	-
Bromobenzene	0.05	mg/kg	-	< 0.05	-	-
Bromochloromethane	0.05	mg/kg	-	< 0.05	-	-
Bromodichloromethane	0.05	mg/kg	-	< 0.05	-	-
Bromoform	0.05	mg/kg	-	< 0.05	-	-
Bromomethane	0.05	mg/kg	-	< 0.05	-	-
Carbon disulfide	0.05	mg/kg	-	< 0.05	-	-
Carbon Tetrachloride	0.05	mg/kg	-	< 0.05	-	-
Chlorobenzene	0.05	mg/kg	-	< 0.05	-	-
Chloroethane	0.05	mg/kg	-	< 0.05	-	-
Chloroform	0.05	mg/kg	-	< 0.05	-	-
Chloromethane	0.05	mg/kg	-	< 0.05	-	-
cis-1.2-Dichloroethene	0.05	mg/kg	-	< 0.05	-	-
cis-1.3-Dichloropropene	0.05	mg/kg	-	< 0.05	-	-
Dibromochloromethane	0.05	mg/kg	-	< 0.05	-	-
Dibromomethane	0.5	mg/kg	-	< 0.5	-	-
Dichlorodifluoromethane	0.05	mg/kg	-	< 0.05	-	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	-
Iodomethane	0.05	mg/kg	-	< 0.05	-	-
Isopropyl benzene (Cumene)	0.05	mg/kg	-	< 0.05	-	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	-
Methylene Chloride	0.05	mg/kg	-	< 0.5	-	-
o-Xylene	0.1	mg/kg	-	< 0.1	-	-
Styrene	0.05	mg/kg	-	< 0.05	-	-
Tetrachloroethene	0.05	mg/kg	-	< 0.05	-	-
Toluene	0.1	mg/kg	-	< 0.1	-	-
trans-1.2-Dichloroethene	0.05	mg/kg	-	< 0.05	-	-
trans-1.3-Dichloropropene	0.05	mg/kg	-	< 0.05	-	-
Trichloroethene	0.05	mg/kg	-	< 0.05	-	-
Trichlorofluoromethane	0.05	mg/kg	-	< 0.05	-	-
Vinyl chloride	0.05	mg/kg	-	< 0.05	-	-
Xylenes - Total	0.3	mg/kg	-	< 0.3	-	-
4-Bromofluorobenzene (surr.)	1	%	-	91	-	-
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	6.3	-	< 0.5	8.8
Acenaphthylene	0.5	mg/kg	9.0	-	< 0.5	1.5
Anthracene	0.5	mg/kg	25	-	0.7	23
Benz(a)anthracene	0.5	mg/kg	45	-	1.8	28
Benzo(a)pyrene	0.5	mg/kg	39	-	2.8	23
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	35	-	2.5	16
Benzo(g.h.i)perylene	0.5	mg/kg	20	-	1.4	9.5
Benzo(k)fluoranthene	0.5	mg/kg	20	-	2.8	25
Chrysene	0.5	mg/kg	40	-	1.9	25
Dibenz(a.h)anthracene	0.5	mg/kg	6.3	-	< 0.5	3.1

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC007 0.5 Soil S14-Ja07781 Jan 16, 2014	FC007 2.0 Soil S14-Ja07783 Jan 16, 2014	FC007 5.5 Soil S14-Ja07786 Jan 16, 2014	FC012 0.5 Soil S14-Ja07789 Jan 16, 2014
Polycyclic Aromatic Hydrocarbons						
Fluoranthene	0.5	mg/kg	99	-	3.0	57
Fluorene	0.5	mg/kg	11	-	< 0.5	9.8
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	19	-	1.4	9.3
Naphthalene	0.5	mg/kg	6.0	-	< 0.5	5.9
Phenanthrene	0.5	mg/kg	86	-	1.3	59
Pyrene	0.5	mg/kg	100	-	3.2	51
Total PAH	0.5	mg/kg	620	-	23	350
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	71	-	3.6	31
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	71	-	3.9	34
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	71	-	4.1	36
2-Fluorobiphenyl (surr.)	1	%	92	-	101	100
p-Terphenyl-d14 (surr.)	1	%	105	-	104	112
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	-	-	< 0.05
a-BHC	0.05	mg/kg	-	-	-	< 0.05
Aldrin	0.05	mg/kg	-	-	-	< 0.05
b-BHC	0.05	mg/kg	-	-	-	< 0.05
d-BHC	0.05	mg/kg	-	-	-	< 0.05
Dieldrin	0.05	mg/kg	-	-	-	< 0.05
Endosulfan I	0.05	mg/kg	-	-	-	< 0.05
Endosulfan II	0.05	mg/kg	-	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	-	-	< 0.05
Endrin	0.05	mg/kg	-	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	-	-	< 0.05
Endrin ketone	0.05	mg/kg	-	-	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	-	-	< 0.05
Heptachlor	0.05	mg/kg	-	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	-	< 0.05
Methoxychlor	0.2	mg/kg	-	-	-	< 0.2
Toxaphene	1	mg/kg	-	-	-	< 1
Dibutylchlorendate (surr.)	1	%	-	-	-	94
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	105
Polychlorinated Biphenyls (PCB)						
Aroclor-1016	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1232	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1242	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1248	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1254	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1260	0.5	mg/kg	-	-	-	< 0.5
Total PCB	0.5	mg/kg	-	-	-	< 0.5
Dibutylchlorendate (surr.)	1	%	-	-	-	94
Conductivity (1:5 aqueous extract at 25°C)	5	uS/cm	74	-	220	160
pH (1:5 Aqueous extract)	0.1	units	9.2	-	8.7	9.6
% Moisture	0.1	%	8.3	10	14	8.5

Client Sample ID			FC007 0.5	FC007 2.0	FC007 5.5	FC012 0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			S14-Ja07781	S14-Ja07783	S14-Ja07786	S14-Ja07789
Date Sampled			Jan 16, 2014	Jan 16, 2014	Jan 16, 2014	Jan 16, 2014
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	2.3	< 2	7.3	3.0
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	5.9	< 5	38	9.3
Copper	5	mg/kg	67	10	120	160
Lead	5	mg/kg	100	24	270	480
Mercury	0.05	mg/kg	0.11	< 0.05	0.37	0.13
Nickel	5	mg/kg	6.0	< 5	7.2	20
Zinc	5	mg/kg	120	22	200	150

Client Sample ID			FC012 3.0	FC012 4.0	FC013 0.0	FC013 4.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			S14-Ja07792	S14-Ja07793	S14-Ja07795	S14-Ja07799
Date Sampled			Jan 16, 2014	Jan 16, 2014	Jan 16, 2014	Jan 16, 2014
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	21	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	1100	360
TRH C29-C36	50	mg/kg	< 50	< 50	790	270
TRH C10-36 (Total)	50	mg/kg	< 50	< 50	1900	630
BTEX						
Benzene	0.1	mg/kg	-	-	< 0.1	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-
o-Xylene	0.1	mg/kg	-	-	< 0.1	-
Xylenes - Total	0.3	mg/kg	-	-	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	-	-	88	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	5.8	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	52	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	46	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	1800	590
TRH >C34-C40	100	mg/kg	< 100	< 100	570	230
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	1.0	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	6.6	2.9
Anthracene	0.5	mg/kg	< 0.5	< 0.5	14	5.6
Benz(a)anthracene	0.5	mg/kg	0.7	< 0.5	27	10
Benzo(a)pyrene	0.5	mg/kg	0.8	< 0.5	21	8.7
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	0.6	< 0.5	13	6.7
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	11	4.4
Benzo(k)fluoranthene	0.5	mg/kg	0.8	< 0.5	20	8.3
Chrysene	0.5	mg/kg	0.7	< 0.5	21	8.4
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	3.7	1.4
Fluoranthene	0.5	mg/kg	1.3	0.7	45	19

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC012 3.0 Soil S14-Ja07792 Jan 16, 2014	FC012 4.0 Soil S14-Ja07793 Jan 16, 2014	FC013 0.0 Soil S14-Ja07795 Jan 16, 2014	FC013 4.0 Soil S14-Ja07799 Jan 16, 2014
Polycyclic Aromatic Hydrocarbons						
Fluorene	0.5	mg/kg	< 0.5	< 0.5	3.9	1.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	11	4.2
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	2.6	0.9
Phenanthrene	0.5	mg/kg	1.0	0.6	39	15
Pyrene	0.5	mg/kg	1.2	0.7	42	17
Total PAH	0.5	mg/kg	7.1	2.0	280	110
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	1.0	< 0.5	32	13
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	1.3	0.6	32	13
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	1.6	1.2	32	13
2-Fluorobiphenyl (surr.)	1	%	93	99	98	91
p-Terphenyl-d14 (surr.)	1	%	96	102	111	102
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	< 0.1	-
4.4'-DDD	0.05	mg/kg	-	-	< 0.05	-
4.4'-DDE	0.05	mg/kg	-	-	0.09	-
4.4'-DDT	0.05	mg/kg	-	-	0.19	-
a-BHC	0.05	mg/kg	-	-	< 0.05	-
Aldrin	0.05	mg/kg	-	-	< 0.05	-
b-BHC	0.05	mg/kg	-	-	< 0.05	-
d-BHC	0.05	mg/kg	-	-	< 0.05	-
Dieldrin	0.05	mg/kg	-	-	< 0.05	-
Endosulfan I	0.05	mg/kg	-	-	< 0.05	-
Endosulfan II	0.05	mg/kg	-	-	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	-	-	< 0.05	-
Endrin	0.05	mg/kg	-	-	< 0.05	-
Endrin aldehyde	0.05	mg/kg	-	-	< 0.05	-
Endrin ketone	0.05	mg/kg	-	-	< 0.05	-
g-BHC (Lindane)	0.05	mg/kg	-	-	< 0.05	-
Heptachlor	0.05	mg/kg	-	-	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	-	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	-	-	< 0.05	-
Methoxychlor	0.2	mg/kg	-	-	< 0.2	-
Toxaphene	1	mg/kg	-	-	< 1	-
Dibutylchlorendate (surr.)	1	%	-	-	109	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	80	-
Polychlorinated Biphenyls (PCB)						
Aroclor-1016	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1232	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1242	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1248	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1254	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1260	0.5	mg/kg	-	-	< 0.5	-
Total PCB	0.5	mg/kg	-	-	< 0.5	-
Dibutylchlorendate (surr.)	1	%	-	-	109	-
Conductivity (1:5 aqueous extract at 25°C)	5	uS/cm	210	240	92	150
pH (1:5 Aqueous extract)	0.1	units	9.0	7.5	8.7	8.5
% Moisture	0.1	%	14	19	9.3	8.8

Client Sample ID			FC012 3.0	FC012 4.0	FC013 0.0	FC013 4.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			S14-Ja07792	S14-Ja07793	S14-Ja07795	S14-Ja07799
Date Sampled			Jan 16, 2014	Jan 16, 2014	Jan 16, 2014	Jan 16, 2014
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	6.7	3.3	9.4	33
Cadmium	0.4	mg/kg	< 0.4	< 0.4	2.9	5.1
Chromium	5	mg/kg	22	20	40	130
Copper	5	mg/kg	49	13	1100	2900
Lead	5	mg/kg	150	50	1500	1400
Mercury	0.05	mg/kg	0.88	0.21	1.6	0.67
Nickel	5	mg/kg	< 5	< 5	59	210
Zinc	5	mg/kg	90	73	980	2600

Client Sample ID			FC013 6.5	FC014 1.0	FC014 2.0	FC014 5.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			S14-Ja07801	S14-Ja07803	S14-Ja07804	S14-Ja07807
Date Sampled			Jan 16, 2014	Jan 16, 2014	Jan 16, 2014	Jan 16, 2014
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	55	200	58	1100
TRH C29-C36	50	mg/kg	< 50	240	100	1100
TRH C10-36 (Total)	50	mg/kg	55	440	160	2200
BTEX						
Benzene	0.1	mg/kg	-	-	< 0.1	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-
o-Xylene	0.1	mg/kg	-	-	< 0.1	-
Xylenes - Total	0.3	mg/kg	-	-	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	-	-	83	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	410	130	2100
TRH >C34-C40	100	mg/kg	< 100	210	140	660
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.7
Acenaphthylene	0.5	mg/kg	0.6	1.2	< 0.5	1.6
Anthracene	0.5	mg/kg	1.2	2.1	0.6	5.0
Benz(a)anthracene	0.5	mg/kg	2.2	6.5	2.0	12
Benzo(a)pyrene	0.5	mg/kg	1.7	6.6	2.4	14
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	1.2	5.4	1.8	7.4
Benzo(g.h.i)perylene	0.5	mg/kg	0.8	3.3	1.3	7.3
Benzo(k)fluoranthene	0.5	mg/kg	1.9	7.0	2.6	14
Chrysene	0.5	mg/kg	1.8	5.8	1.9	12
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	1.0	< 0.5	2.3
Fluoranthene	0.5	mg/kg	4.4	9.5	3.0	21

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC013 6.5 Soil S14-Ja07801 Jan 16, 2014	FC014 1.0 Soil S14-Ja07803 Jan 16, 2014	FC014 2.0 Soil S14-Ja07804 Jan 16, 2014	FC014 5.0 Soil S14-Ja07807 Jan 16, 2014
Polycyclic Aromatic Hydrocarbons						
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	1.6
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	0.8	3.2	1.2	7.1
Naphthalene	0.5	mg/kg	< 0.5	0.5	< 0.5	0.8
Phenanthrene	0.5	mg/kg	3.2	4.3	1.1	6.0
Pyrene	0.5	mg/kg	4.1	9.8	3.1	20
Total PAH	0.5	mg/kg	24	66	21	130
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	2.4	9.9	3.2	20
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	2.6	9.9	3.5	20
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	2.9	9.9	3.7	20
2-Fluorobiphenyl (surr.)	1	%	98	95	94	101
p-Terphenyl-d14 (surr.)	1	%	105	104	100	107
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	< 0.1	-
4.4'-DDD	0.05	mg/kg	-	-	< 0.05	-
4.4'-DDE	0.05	mg/kg	-	-	< 0.05	-
4.4'-DDT	0.05	mg/kg	-	-	< 0.05	-
a-BHC	0.05	mg/kg	-	-	< 0.05	-
Aldrin	0.05	mg/kg	-	-	< 0.05	-
b-BHC	0.05	mg/kg	-	-	< 0.05	-
d-BHC	0.05	mg/kg	-	-	< 0.05	-
Dieldrin	0.05	mg/kg	-	-	< 0.05	-
Endosulfan I	0.05	mg/kg	-	-	< 0.05	-
Endosulfan II	0.05	mg/kg	-	-	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	-	-	< 0.05	-
Endrin	0.05	mg/kg	-	-	< 0.05	-
Endrin aldehyde	0.05	mg/kg	-	-	< 0.05	-
Endrin ketone	0.05	mg/kg	-	-	< 0.05	-
g-BHC (Lindane)	0.05	mg/kg	-	-	< 0.05	-
Heptachlor	0.05	mg/kg	-	-	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	-	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	-	-	< 0.05	-
Methoxychlor	0.2	mg/kg	-	-	< 0.2	-
Toxaphene	1	mg/kg	-	-	< 1	-
Dibutylchlorendate (surr.)	1	%	-	-	83	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	72	-
Polychlorinated Biphenyls (PCB)						
Aroclor-1016	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1232	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1242	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1248	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1254	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1260	0.5	mg/kg	-	-	< 0.5	-
Total PCB	0.5	mg/kg	-	-	< 0.5	-
Dibutylchlorendate (surr.)	1	%	-	-	83	-
Conductivity (1:5 aqueous extract at 25°C)	5	uS/cm	140	30	97	450
pH (1:5 Aqueous extract)	0.1	units	8.7	8.4	8.6	8.1
% Moisture	0.1	%	18	8.7	8.5	13

Client Sample ID			FC013 6.5	FC014 1.0	FC014 2.0	FC014 5.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			S14-Ja07801	S14-Ja07803	S14-Ja07804	S14-Ja07807
Date Sampled			Jan 16, 2014	Jan 16, 2014	Jan 16, 2014	Jan 16, 2014
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	53	5.1	17	5.6
Cadmium	0.4	mg/kg	4.4	0.9	0.7	0.9
Chromium	5	mg/kg	1500	14	29	60
Copper	5	mg/kg	2200	160	1700	290
Lead	5	mg/kg	2800	830	870	400
Mercury	0.05	mg/kg	0.11	0.41	0.22	0.83
Nickel	5	mg/kg	1700	13	23	28
Zinc	5	mg/kg	2800	390	750	520

Client Sample ID			FC091 0.0	FC091 1.0	FC091 4.0	QC19
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			S14-Ja07809	S14-Ja07811	S14-Ja07813	S14-Ja07816
Date Sampled			Jan 16, 2014	Jan 16, 2014	Jan 16, 2014	Jan 16, 2014
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	140	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	910	93	87
TRH C29-C36	50	mg/kg	60	350	94	140
TRH C10-36 (Total)	50	mg/kg	60	1400	190	230
BTEX						
Benzene	0.1	mg/kg	-	-	< 0.1	< 0.1
Toluene	0.1	mg/kg	-	-	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	-	-	< 0.1	< 0.1
Xylenes - Total	0.3	mg/kg	-	-	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	-	96	95
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	4.3	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	350	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	350	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	980	150	190
TRH >C34-C40	100	mg/kg	160	580	190	190
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	< 0.5	9.1	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	5.5	0.5	0.9
Anthracene	0.5	mg/kg	< 0.5	14	1.6	1.4
Benz(a)anthracene	0.5	mg/kg	< 0.5	17	3.3	4.1
Benzo(a)pyrene	0.5	mg/kg	< 0.5	12	3.5	4.2
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	9.0	2.2	3.0
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	5.3	1.7	2.0
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	12	3.7	4.6
Chrysene	0.5	mg/kg	< 0.5	13	2.9	3.8
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	1.8	0.5	0.6
Fluoranthene	0.5	mg/kg	0.8	34	5.5	6.0

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC091 0.0 Soil S14-Ja07809 Jan 16, 2014	FC091 1.0 Soil S14-Ja07811 Jan 16, 2014	FC091 4.0 Soil S14-Ja07813 Jan 16, 2014	QC19 Soil S14-Ja07816 Jan 16, 2014
Polycyclic Aromatic Hydrocarbons						
Fluorene	0.5	mg/kg	< 0.5	14	0.8	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	5.3	1.7	2.0
Naphthalene	0.5	mg/kg	< 0.5	16	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	45	3.7	2.9
Pyrene	0.5	mg/kg	0.9	32	5.5	6.1
Total PAH	0.5	mg/kg	1.7	250	37	42
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	< 0.5	18	5.1	6.3
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	0.6	18	5.1	6.3
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	1.2	18	5.1	6.3
2-Fluorobiphenyl (surr.)	1	%	94	97	97	112
p-Terphenyl-d14 (surr.)	1	%	102	117	108	123
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	-	-	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	-	-	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	-	-	< 0.05	< 0.05
a-BHC	0.05	mg/kg	-	-	< 0.05	< 0.05
Aldrin	0.05	mg/kg	-	-	< 0.05	< 0.05
b-BHC	0.05	mg/kg	-	-	< 0.05	< 0.05
d-BHC	0.05	mg/kg	-	-	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	-	-	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	-	-	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	-	-	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	-	< 0.05	< 0.05
Endrin	0.05	mg/kg	-	-	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	-	-	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	-	-	< 0.05	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	-	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	-	-	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	-	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	< 0.05	< 0.05
Methoxychlor	0.2	mg/kg	-	-	< 0.2	< 0.2
Toxaphene	1	mg/kg	-	-	< 1	< 1
Dibutylchlorendate (surr.)	1	%	-	-	86	83
Tetrachloro-m-xylene (surr.)	1	%	-	-	71	81
Polychlorinated Biphenyls (PCB)						
Aroclor-1016	0.5	mg/kg	-	-	< 0.5	< 0.5
Aroclor-1232	0.5	mg/kg	-	-	< 0.5	< 0.5
Aroclor-1242	0.5	mg/kg	-	-	< 0.5	< 0.5
Aroclor-1248	0.5	mg/kg	-	-	< 0.5	< 0.5
Aroclor-1254	0.5	mg/kg	-	-	< 0.5	< 0.5
Aroclor-1260	0.5	mg/kg	-	-	< 0.5	< 0.5
Total PCB	0.5	mg/kg	-	-	< 0.5	< 0.5
Dibutylchlorendate (surr.)	1	%	-	-	86	83
Conductivity (1:5 aqueous extract at 25°C)	5	uS/cm	270	170	110	-
pH (1:5 Aqueous extract)	0.1	units	10	11	9.3	-
% Moisture	0.1	%	2.3	8.9	8.3	6.5

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC091 0.0 Soil S14-Ja07809 Jan 16, 2014	FC091 1.0 Soil S14-Ja07811 Jan 16, 2014	FC091 4.0 Soil S14-Ja07813 Jan 16, 2014	QC19 Soil S14-Ja07816 Jan 16, 2014
Heavy Metals						
Arsenic	2	mg/kg	3.1	< 2	2.7	12
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	0.7
Chromium	5	mg/kg	15	8.1	140	23
Copper	5	mg/kg	32	31	58	190
Lead	5	mg/kg	35	57	83	450
Mercury	0.05	mg/kg	0.05	0.11	0.16	0.15
Nickel	5	mg/kg	13	8.0	6.8	12
Zinc	5	mg/kg	64	63	85	450

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	QC20 Soil S14-Ja07817 Jan 16, 2014	FC091 2.0 Soil S14-Ja07883 Jan 16, 2014
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				
TRH C6-C9	20	mg/kg	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	29
TRH C15-C28	50	mg/kg	< 50	190
TRH C29-C36	50	mg/kg	< 50	57
TRH C10-36 (Total)	50	mg/kg	< 50	280
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	78
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	78
TRH >C16-C34	100	mg/kg	< 100	190
TRH >C34-C40	100	mg/kg	< 100	130
Volatile Organics				
1.1-Dichloroethane	0.05	mg/kg	< 0.05	-
1.1-Dichloroethene	0.05	mg/kg	< 0.05	-
1.1.1-Trichloroethane	0.05	mg/kg	< 0.05	-
1.1.1.2-Tetrachloroethane	0.05	mg/kg	< 0.05	-
1.1.2-Trichloroethane	0.05	mg/kg	< 0.05	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-
1.2-Dibromoethane	0.05	mg/kg	< 0.05	-
1.2-Dichlorobenzene	0.05	mg/kg	< 0.05	-
1.2-Dichloroethane	0.05	mg/kg	< 0.05	-
1.2-Dichloropropane	0.05	mg/kg	< 0.05	-
1.2.3-Trichloropropane	0.05	mg/kg	< 0.05	-
1.2.4-Trimethylbenzene	0.05	mg/kg	< 0.05	-
1.3-Dichlorobenzene	0.05	mg/kg	< 0.05	-
1.3-Dichloropropane	0.05	mg/kg	< 0.05	-
1.3.5-Trimethylbenzene	0.05	mg/kg	< 0.05	-
1.4-Dichlorobenzene	0.05	mg/kg	< 0.05	-
2-Butanone (MEK)	0.05	mg/kg	< 0.05	-
4-Chlorotoluene	0.05	mg/kg	< 0.05	-
4-Methyl-2-pentanone (MIBK)	0.05	mg/kg	< 0.05	-

Client Sample ID			QC20	FC091 2.0
Sample Matrix			Soil	Soil
Eurofins | mgt Sample No.			S14-Ja07817	S14-Ja07883
Date Sampled			Jan 16, 2014	Jan 16, 2014
Test/Reference	LOR	Unit		
Volatile Organics				
Benzene	0.1	mg/kg	< 0.1	-
Bromobenzene	0.05	mg/kg	< 0.05	-
Bromochloromethane	0.05	mg/kg	< 0.05	-
Bromodichloromethane	0.05	mg/kg	< 0.05	-
Bromoform	0.05	mg/kg	< 0.05	-
Bromomethane	0.05	mg/kg	< 0.05	-
Carbon disulfide	0.05	mg/kg	< 0.05	-
Carbon Tetrachloride	0.05	mg/kg	< 0.05	-
Chlorobenzene	0.05	mg/kg	< 0.05	-
Chloroethane	0.05	mg/kg	< 0.05	-
Chloroform	0.05	mg/kg	< 0.05	-
Chloromethane	0.05	mg/kg	< 0.05	-
cis-1.2-Dichloroethene	0.05	mg/kg	< 0.05	-
cis-1.3-Dichloropropene	0.05	mg/kg	< 0.05	-
Dibromochloromethane	0.05	mg/kg	< 0.05	-
Dibromomethane	0.5	mg/kg	< 0.5	-
Dichlorodifluoromethane	0.05	mg/kg	< 0.05	-
Ethylbenzene	0.1	mg/kg	< 0.1	-
Iodomethane	0.05	mg/kg	< 0.05	-
Isopropyl benzene (Cumene)	0.05	mg/kg	< 0.05	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-
Methylene Chloride	0.05	mg/kg	< 0.5	-
o-Xylene	0.1	mg/kg	< 0.1	-
Styrene	0.05	mg/kg	< 0.05	-
Tetrachloroethene	0.05	mg/kg	< 0.05	-
Toluene	0.1	mg/kg	< 0.1	-
trans-1.2-Dichloroethene	0.05	mg/kg	< 0.05	-
trans-1.3-Dichloropropene	0.05	mg/kg	< 0.05	-
Trichloroethene	0.05	mg/kg	< 0.05	-
Trichlorofluoromethane	0.05	mg/kg	< 0.05	-
Vinyl chloride	0.05	mg/kg	< 0.05	-
Xylenes - Total	0.3	mg/kg	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	92	-
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	0.5	mg/kg	-	< 0.5
Acenaphthylene	0.5	mg/kg	-	< 0.5
Anthracene	0.5	mg/kg	-	1.2
Benz(a)anthracene	0.5	mg/kg	-	1.8
Benzo(a)pyrene	0.5	mg/kg	-	1.7
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	1.1
Benzo(g.h.i)perylene	0.5	mg/kg	-	0.8
Benzo(k)fluoranthene	0.5	mg/kg	-	1.7
Chrysene	0.5	mg/kg	-	1.6
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5
Fluoranthene	0.5	mg/kg	-	3.4
Fluorene	0.5	mg/kg	-	0.8
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	0.8
Naphthalene	0.5	mg/kg	-	0.5
Phenanthrene	0.5	mg/kg	-	3.0

Client Sample ID			QC20	FC091 2.0
Sample Matrix			**Soil**	**Soil**
Eurofins | mgt Sample No.			**S14-Ja07817**	**S14-Ja07883**
Date Sampled			**Jan 16, 2014**	**Jan 16, 2014**
Test/Reference	LOR	Unit		
Polycyclic Aromatic Hydrocarbons				
Pyrene	0.5	mg/kg	-	3.4
Total PAH	0.5	mg/kg	-	22
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	-	2.2
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	-	2.5
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	-	2.7
2-Fluorobiphenyl (surr.)	1	%	-	86
p-Terphenyl-d14 (surr.)	1	%	-	101
Conductivity (1:5 aqueous extract at 25°C)	5	uS/cm	-	150
pH (1:5 Aqueous extract)	0.1	units	-	10
% Moisture	0.1	%	7.4	10
Heavy Metals				
Arsenic	2	mg/kg	8.6	< 2
Cadmium	0.4	mg/kg	0.4	< 0.4
Chromium	5	mg/kg	15	37
Copper	5	mg/kg	72	38
Lead	5	mg/kg	130	130
Mercury	0.05	mg/kg	0.09	0.28
Nickel	5	mg/kg	13	6.6
Zinc	5	mg/kg	75	68

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Jan 21, 2014	14 Day
- Method: E004 Petroleum Hydrocarbons (TPH)			
BTEX	Sydney	Jan 21, 2014	14 Day
- Method: E029/E016 BTEX			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jan 21, 2014	14 Day
- Method: LM-LTM-ORG2010			
Polycyclic Aromatic Hydrocarbons	Sydney	Jan 21, 2014	14 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Organochlorine Pesticides	Sydney	Jan 21, 2014	14 Day
- Method: E013 Organochlorine Pesticides (OC)			
Polychlorinated Biphenyls (PCB)	Sydney	Jan 21, 2014	28 Day
- Method: E013 Polychlorinated Biphenyls (PCB)			
Metals M8	Sydney	Jan 21, 2014	28 Day
- Method: E022 Acid Extractable metals in Soils & E026 Mercury			
Volatile Organics	Sydney	Jan 21, 2014	7 Day
- Method: E016 Volatile Organic Compounds (VOC)			
Conductivity (1:5 aqueous extract at 25°C)	Sydney	Jan 22, 2014	7 Day
- Method: E032.2 Electrical Conductivity (EC)			
pH (1:5 Aqueous extract)	Sydney	Jan 22, 2014	7 Day
- Method: E018.2 pH			
% Moisture	Sydney	Jan 21, 2014	28 Day
- Method: E005 Moisture Content			

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NATA # 1261 Site # 18217

Brisbane
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Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: GREEN SQUARE BLOCK JB 43182

Order No.:
Report #: 405944
Phone: 02 8245 0300
Fax:

Received: Jan 17, 2014 1:35 PM
Due: Jan 24, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Total Recoverable Hydrocarbons	Volatile Organics	JBS&G Suite 2
Laboratory where analysis is conducted														
Melbourne Laboratory - NATA Site # 1254 & 14271														
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
External Laboratory														
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**										
FC007 0.0	Jan 16, 2014		Soil	S14-Ja07780			X							
FC007 0.5	Jan 16, 2014		Soil	S14-Ja07781	X	X		X	X	X		X		
FC007 1.0	Jan 16, 2014		Soil	S14-Ja07782			X							
FC007 2.0	Jan 16, 2014		Soil	S14-Ja07783	X					X		X	X	
FC007 3.0	Jan 16, 2014		Soil	S14-Ja07784			X							
FC007 4.0	Jan 16, 2014		Soil	S14-Ja07785			X							
FC007 5.5	Jan 16, 2014		Soil	S14-Ja07786	X	X		X	X	X		X		
FC007 6.5	Jan 16, 2014		Soil	S14-Ja07787			X							
FC012 0.0	Jan 16, 2014		Soil	S14-Ja07788			X							
FC012 0.5	Jan 16, 2014		Soil	S14-Ja07789	X	X		X						X

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Laboratory where analysis is conducted														
Melbourne Laboratory - NATA Site # 1254 & 14271														
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
External Laboratory														
FC012 1.0	Jan 16, 2014		Soil	S14-Ja07790			X							
FC012 2.0	Jan 16, 2014		Soil	S14-Ja07791			X							
FC012 3.0	Jan 16, 2014		Soil	S14-Ja07792	X	X		X	X	X		X		
FC012 4.0	Jan 16, 2014		Soil	S14-Ja07793	X	X		X	X	X		X		
FC012 5.5	Jan 16, 2014		Soil	S14-Ja07794			X							
FC013 0.0	Jan 16, 2014		Soil	S14-Ja07795	X	X		X						X
FC013 1.0	Jan 16, 2014		Soil	S14-Ja07796			X							
FC013 2.0	Jan 16, 2014		Soil	S14-Ja07797			X							
FC013 3.0	Jan 16, 2014		Soil	S14-Ja07798			X							
FC013 4.0	Jan 16, 2014		Soil	S14-Ja07799	X	X		X	X	X		X		
FC013 5.0	Jan 16, 2014		Soil	S14-Ja07800			X							

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Laboratory where analysis is conducted														
Melbourne Laboratory - NATA Site # 1254 & 14271														
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
External Laboratory														
FC013 6.5	Jan 16, 2014		Soil	S14-Ja07801	X	X		X	X	X		X		
FC014 0.0	Jan 16, 2014		Soil	S14-Ja07802			X							
FC014 1.0	Jan 16, 2014		Soil	S14-Ja07803	X	X		X	X	X		X		
FC014 2.0	Jan 16, 2014		Soil	S14-Ja07804	X	X		X						X
FC014 3.0	Jan 16, 2014		Soil	S14-Ja07805			X							
FC014 4.0	Jan 16, 2014		Soil	S14-Ja07806			X							
FC014 5.0	Jan 16, 2014		Soil	S14-Ja07807	X	X		X	X	X		X		
FC014 6.5	Jan 16, 2014		Soil	S14-Ja07808			X							
FC091 0.0	Jan 16, 2014		Soil	S14-Ja07809	X	X		X	X	X		X		
FC091 0.5	Jan 16, 2014		Soil	S14-Ja07810			X							
FC091 1.0	Jan 16, 2014		Soil	S14-Ja07811	X	X		X	X	X		X		

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Laboratory where analysis is conducted														
Melbourne Laboratory - NATA Site # 1254 & 14271														
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
External Laboratory														
FC091 3.0	Jan 16, 2014		Soil	S14-Ja07812			X							
FC091 4.0	Jan 16, 2014		Soil	S14-Ja07813	X	X		X						X
FC091 5.5	Jan 16, 2014		Soil	S14-Ja07814			X							
FC091 6.5	Jan 16, 2014		Soil	S14-Ja07815			X							
QC19	Jan 16, 2014		Soil	S14-Ja07816	X									X
QC20	Jan 16, 2014		Soil	S14-Ja07817	X					X		X	X	
TRIP SPIKE (TS)	Jan 13, 2014		Water	S14-Ja07818							X			
TRIP BLANK (TB)	Jan 13, 2014		Water	S14-Ja07819							X			
RINSATE	Jan 16, 2014		Water	S14-Ja07820					X	X	X	X		
FC091 2.0	Jan 16, 2014		Soil	S14-Ja07883	X	X		X	X	X		X		

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH C6-C10 less BTEX (F1)	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/kg	< 0.05			0.05	Pass	
1.1-Dichloroethene	mg/kg	< 0.05			0.05	Pass	
1.1.1-Trichloroethane	mg/kg	< 0.05			0.05	Pass	
1.1.1.2-Tetrachloroethane	mg/kg	< 0.05			0.05	Pass	
1.1.2-Trichloroethane	mg/kg	< 0.05			0.05	Pass	
1.1.2.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dibromoethane	mg/kg	< 0.05			0.05	Pass	
1.2-Dichlorobenzene	mg/kg	< 0.05			0.05	Pass	
1.2-Dichloroethane	mg/kg	< 0.05			0.05	Pass	
1.2-Dichloropropane	mg/kg	< 0.05			0.05	Pass	
1.2.3-Trichloropropane	mg/kg	< 0.05			0.05	Pass	
1.2.4-Trimethylbenzene	mg/kg	< 0.05			0.05	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.05			0.05	Pass	
1.3-Dichloropropane	mg/kg	< 0.05			0.05	Pass	
1.3.5-Trimethylbenzene	mg/kg	< 0.05			0.05	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.05			0.05	Pass	
2-Butanone (MEK)	mg/kg	< 0.05			0.05	Pass	
4-Chlorotoluene	mg/kg	< 0.05			0.05	Pass	
4-Methyl-2-pentanone (MIBK)	mg/kg	< 0.05			0.05	Pass	
Benzene	mg/kg	< 0.1			0.1	Pass	
Bromobenzene	mg/kg	< 0.05			0.05	Pass	
Bromochloromethane	mg/kg	< 0.05			0.05	Pass	
Bromodichloromethane	mg/kg	< 0.05			0.05	Pass	
Bromoform	mg/kg	< 0.05			0.05	Pass	
Bromomethane	mg/kg	< 0.05			0.05	Pass	
Carbon disulfide	mg/kg	< 0.05			0.05	Pass	
Carbon Tetrachloride	mg/kg	< 0.05			0.05	Pass	
Chlorobenzene	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Chloroethane	mg/kg	< 0.05			0.05	Pass	
Chloroform	mg/kg	< 0.05			0.05	Pass	
Chloromethane	mg/kg	< 0.05			0.05	Pass	
cis-1.2-Dichloroethene	mg/kg	< 0.05			0.05	Pass	
cis-1.3-Dichloropropene	mg/kg	< 0.05			0.05	Pass	
Dibromochloromethane	mg/kg	< 0.05			0.05	Pass	
Dibromomethane	mg/kg	< 0.5			0.5	Pass	
Dichlorodifluoromethane	mg/kg	< 0.05			0.05	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
Iodomethane	mg/kg	< 0.05			0.05	Pass	
Isopropyl benzene (Cumene)	mg/kg	< 0.05			0.05	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
Methylene Chloride	mg/kg	< 0.05			0.05	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Styrene	mg/kg	< 0.05			0.05	Pass	
Tetrachloroethene	mg/kg	< 0.05			0.05	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
trans-1.2-Dichloroethene	mg/kg	< 0.05			0.05	Pass	
trans-1.3-Dichloropropene	mg/kg	< 0.05			0.05	Pass	
Trichloroethene	mg/kg	< 0.05			0.05	Pass	
Trichlorofluoromethane	mg/kg	< 0.05			0.05	Pass	
Vinyl chloride	mg/kg	< 0.05			0.05	Pass	
Xylenes - Total	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	-0.01			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-BHC	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-BHC	mg/kg	< 0.05			0.05	Pass	
d-BHC	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-BHC (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.2			0.2	Pass	
Toxaphene	mg/kg	< 1			1	Pass	
Method Blank							
Polychlorinated Biphenyls (PCB)							
Aroclor-1016	mg/kg	< 0.5			0.5	Pass	
Aroclor-1232	mg/kg	< 0.5			0.5	Pass	
Aroclor-1242	mg/kg	< 0.5			0.5	Pass	
Aroclor-1248	mg/kg	< 0.5			0.5	Pass	
Aroclor-1254	mg/kg	< 0.5			0.5	Pass	
Aroclor-1260	mg/kg	< 0.5			0.5	Pass	
Total PCB	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.05			0.05	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	76			70-130	Pass	
TRH C10-C14	%	76			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	86			70-130	Pass	
Toluene	%	85			70-130	Pass	
Ethylbenzene	%	83			70-130	Pass	
m&p-Xylenes	%	85			70-130	Pass	
o-Xylene	%	84			70-130	Pass	
Xylenes - Total	%	84			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	72			70-130	Pass	
TRH C6-C10	%	82			70-130	Pass	
TRH >C10-C16	%	86			70-130	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethane	%	100			75-125	Pass	
1.1-Dichloroethene	%	106			70-130	Pass	
1.1.1-Trichloroethane	%	107			70-130	Pass	
1.1.1.2-Tetrachloroethane	%	93			70-130	Pass	
1.1.2-Trichloroethane	%	87			70-130	Pass	
1.1.2.2-Tetrachloroethane	%	91			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
1.2-Dibromoethane	%	88			70-130	Pass	
1.2-Dichlorobenzene	%	107			70-130	Pass	
1.2-Dichloroethane	%	89			70-130	Pass	
1.2-Dichloropropane	%	93			70-130	Pass	
1.2.3-Trichloropropane	%	104			70-130	Pass	
1.2.4-Trimethylbenzene	%	119			70-130	Pass	
1.3-Dichlorobenzene	%	113			70-130	Pass	
1.3-Dichloropropane	%	90			70-130	Pass	
1.3.5-Trimethylbenzene	%	120			70-130	Pass	
1.4-Dichlorobenzene	%	112			70-130	Pass	
2-Butanone (MEK)	%	81			70-130	Pass	
4-Chlorotoluene	%	120			70-130	Pass	
4-Methyl-2-pentanone (MIBK)	%	79			70-130	Pass	
Benzene	%	93			70-130	Pass	
Bromobenzene	%	116			70-130	Pass	
Bromochloromethane	%	95			70-130	Pass	
Bromodichloromethane	%	89			70-130	Pass	
Bromoform	%	83			70-130	Pass	
Bromomethane	%	95			70-130	Pass	
Carbon disulfide	%	100			70-130	Pass	
Carbon Tetrachloride	%	107			70-130	Pass	
Chlorobenzene	%	99			70-130	Pass	
Chloroethane	%	105			70-130	Pass	
Chloroform	%	101			70-130	Pass	
Chloromethane	%	112			70-130	Pass	
cis-1.2-Dichloroethene	%	100			70-130	Pass	
cis-1.3-Dichloropropene	%	87			70-130	Pass	
Dibromochloromethane	%	86			70-130	Pass	
Dibromomethane	%	93			70-130	Pass	
Dichlorodifluoromethane	%	103			70-130	Pass	
Ethylbenzene	%	90			70-130	Pass	
Iodomethane	%	92			75-125	Pass	
Isopropyl benzene (Cumene)	%	108			70-130	Pass	
m&p-Xylenes	%	92			70-130	Pass	
Methylene Chloride	%	102			70-130	Pass	
o-Xylene	%	91			70-130	Pass	
Styrene	%	99			70-130	Pass	
Tetrachloroethene	%	104			70-130	Pass	
Toluene	%	91			70-130	Pass	
trans-1.2-Dichloroethene	%	100			70-130	Pass	
trans-1.3-Dichloropropene	%	87			70-130	Pass	
Trichloroethene	%	98			70-130	Pass	
Trichlorofluoromethane	%	104			70-130	Pass	
Vinyl chloride	%	115			70-130	Pass	
Xylenes - Total	%	92			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	123			70-130	Pass	
Acenaphthylene	%	123			70-130	Pass	
Anthracene	%	124			70-130	Pass	
Benz(a)anthracene	%	124			70-130	Pass	
Benzo(a)pyrene	%	124			70-130	Pass	
Benzo(b&j)fluoranthene	%	119			70-130	Pass	
Benzo(g.h.i)perylene	%	95			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Benzo(k)fluoranthene	%	125			70-130	Pass	
Chrysene	%	123			70-130	Pass	
Dibenz(a.h)anthracene	%	108			70-130	Pass	
Fluoranthene	%	125			70-130	Pass	
Fluorene	%	122			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	106			70-130	Pass	
Naphthalene	%	125			70-130	Pass	
Phenanthrene	%	121			70-130	Pass	
Pyrene	%	123			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	87			70-130	Pass	
4.4'-DDD	%	91			70-130	Pass	
4.4'-DDE	%	88			70-130	Pass	
4.4'-DDT	%	89			70-130	Pass	
a-BHC	%	88			70-130	Pass	
Aldrin	%	89			70-130	Pass	
b-BHC	%	94			70-130	Pass	
d-BHC	%	91			70-130	Pass	
Dieldrin	%	89			70-130	Pass	
Endosulfan I	%	89			70-130	Pass	
Endosulfan II	%	90			70-130	Pass	
Endosulfan sulphate	%	90			70-130	Pass	
Endrin	%	88			70-130	Pass	
Endrin aldehyde	%	90			70-130	Pass	
Endrin ketone	%	89			70-130	Pass	
g-BHC (Lindane)	%	89			70-130	Pass	
Heptachlor	%	86			70-130	Pass	
Heptachlor epoxide	%	88			70-130	Pass	
Hexachlorobenzene	%	76			70-130	Pass	
Methoxychlor	%	89			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls (PCB)							
Aroclor-1260	%	101			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	108			70-130	Pass	
Cadmium	%	109			70-130	Pass	
Chromium	%	110			70-130	Pass	
Copper	%	109			70-130	Pass	
Lead	%	103			70-130	Pass	
Mercury	%	83			70-130	Pass	
Nickel	%	106			70-130	Pass	
Zinc	%	109			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S14-Ja07781	CP	%	92			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S14-Ja07781	CP	%	89			70-130	Pass	
Toluene	S14-Ja07781	CP	%	88			70-130	Pass	
Ethylbenzene	S14-Ja07781	CP	%	84			70-130	Pass	
m&p-Xylenes	S14-Ja07781	CP	%	84			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
o-Xylene	S14-Ja07781	CP	%	83			70-130	Pass	
Xylenes - Total	S14-Ja07781	CP	%	83			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S14-Ja07781	CP	%	83			70-130	Pass	
TRH C6-C10	S14-Ja07781	CP	%	97			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S14-Ja07781	CP	%	99			70-130	Pass	
Cadmium	S14-Ja07781	CP	%	101			70-130	Pass	
Chromium	S14-Ja07781	CP	%	104			70-130	Pass	
Copper	S14-Ja07781	CP	%	88			70-130	Pass	
Lead	S14-Ja07993	NCP	%	107			70-130	Pass	
Mercury	S14-Ja07781	CP	%	79			70-130	Pass	
Nickel	S14-Ja07781	CP	%	102			70-130	Pass	
Zinc	S14-Ja07781	CP	%	124			70-130	Pass	
Spike - % Recovery									
Volatile Organics				Result 1					
1.1-Dichloroethane	S14-Ja07760	NCP	%	96			75-125	Pass	
1.1-Dichloroethene	S14-Ja07760	NCP	%	98			70-130	Pass	
1.1.1-Trichloroethane	S14-Ja07760	NCP	%	100			70-130	Pass	
1.1.1.2-Tetrachloroethane	S14-Ja07760	NCP	%	95			70-130	Pass	
1.1.2-Trichloroethane	S14-Ja07760	NCP	%	101			70-130	Pass	
1.1.2.2-Tetrachloroethane	S14-Ja07760	NCP	%	106			70-130	Pass	
1.2-Dibromoethane	S14-Ja07760	NCP	%	102			70-130	Pass	
1.2-Dichlorobenzene	S14-Ja07760	NCP	%	109			70-130	Pass	
1.2-Dichloroethane	S14-Ja07760	NCP	%	100			70-130	Pass	
1.2-Dichloropropane	S14-Ja07760	NCP	%	98			70-130	Pass	
1.2.3-Trichloropropane	S14-Ja07760	NCP	%	116			70-130	Pass	
1.2.4-Trimethylbenzene	S14-Ja07760	NCP	%	112			70-130	Pass	
1.3-Dichlorobenzene	S14-Ja07760	NCP	%	112			70-130	Pass	
1.3-Dichloropropane	S14-Ja07760	NCP	%	104			70-130	Pass	
1.3.5-Trimethylbenzene	S14-Ja07760	NCP	%	114			70-130	Pass	
1.4-Dichlorobenzene	S14-Ja07760	NCP	%	112			70-130	Pass	
2-Butanone (MEK)	S14-Ja07760	NCP	%	99			70-130	Pass	
4-Chlorotoluene	S14-Ja07760	NCP	%	114			70-130	Pass	
4-Methyl-2-pentanone (MIBK)	S14-Ja07760	NCP	%	97			70-130	Pass	
Bromobenzene	S14-Ja07760	NCP	%	114			70-130	Pass	
Bromochloromethane	S14-Ja07760	NCP	%	97			70-130	Pass	
Bromodichloromethane	S14-Ja07760	NCP	%	96			70-130	Pass	
Bromoform	S14-Ja07760	NCP	%	87			70-130	Pass	
Bromomethane	S14-Ja07760	NCP	%	92			70-130	Pass	
Carbon disulfide	S14-Ja07760	NCP	%	84			70-130	Pass	
Carbon Tetrachloride	S14-Ja07760	NCP	%	98			70-130	Pass	
Chlorobenzene	S14-Ja07760	NCP	%	99			70-130	Pass	
Chloroethane	S14-Ja07760	NCP	%	99			70-130	Pass	
Chloroform	S14-Ja07760	NCP	%	101			70-130	Pass	
Chloromethane	S14-Ja07760	NCP	%	86			70-130	Pass	
cis-1.2-Dichloroethene	S14-Ja07760	NCP	%	99			70-130	Pass	
cis-1.3-Dichloropropene	S14-Ja07760	NCP	%	93			70-130	Pass	
Dibromochloromethane	S14-Ja07760	NCP	%	94			70-130	Pass	
Dibromomethane	S14-Ja07760	NCP	%	100			70-130	Pass	
Dichlorodifluoromethane	S14-Ja07760	NCP	%	91			70-130	Pass	
Iodomethane	S14-Ja07760	NCP	%	92			75-125	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Isopropyl benzene (Cumene)	S14-Ja07760	NCP	%	102			70-130	Pass	
Methylene Chloride	S14-Ja07760	NCP	%	108			70-130	Pass	
Styrene	S14-Ja07760	NCP	%	101			70-130	Pass	
Tetrachloroethene	S14-Ja07760	NCP	%	106			70-130	Pass	
trans-1.2-Dichloroethene	S14-Ja07760	NCP	%	95			70-130	Pass	
trans-1.3-Dichloropropene	S14-Ja07760	NCP	%	93			70-130	Pass	
Trichloroethene	S14-Ja07760	NCP	%	100			70-130	Pass	
Trichlorofluoromethane	S14-Ja07760	NCP	%	97			70-130	Pass	
Vinyl chloride	S14-Ja07760	NCP	%	104			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S14-Ja07789	CP	%	102			70-130	Pass	
4.4'-DDD	S14-Ja07789	CP	%	123			70-130	Pass	
4.4'-DDT	S14-Ja07789	CP	%	100			70-130	Pass	
a-BHC	S14-Ja07789	CP	%	106			70-130	Pass	
Aldrin	S14-Ja07789	CP	%	107			70-130	Pass	
b-BHC	S14-Ja07789	CP	%	126			70-130	Pass	
d-BHC	S14-Ja07789	CP	%	121			70-130	Pass	
Dieldrin	S14-Ja07789	CP	%	109			70-130	Pass	
Endosulfan I	S14-Ja07789	CP	%	104			70-130	Pass	
Endosulfan II	S14-Ja07789	CP	%	112			70-130	Pass	
Endosulfan sulphate	S14-Ja07789	CP	%	115			70-130	Pass	
Endrin	S14-Ja07789	CP	%	117			70-130	Pass	
Endrin aldehyde	S14-Ja07789	CP	%	111			70-130	Pass	
Endrin ketone	S14-Ja07789	CP	%	127			70-130	Pass	
g-BHC (Lindane)	S14-Ja07789	CP	%	115			70-130	Pass	
Heptachlor	S14-Ja07789	CP	%	112			70-130	Pass	
Heptachlor epoxide	S14-Ja07789	CP	%	119			70-130	Pass	
Hexachlorobenzene	S14-Ja07789	CP	%	92			70-130	Pass	
Methoxychlor	S14-Ja07789	CP	%	84			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S14-Ja07804	CP	%	81			70-130	Pass	
TRH C10-C14	S14-Ja07804	CP	%	99			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S14-Ja07804	CP	%	89			70-130	Pass	
Toluene	S14-Ja07804	CP	%	88			70-130	Pass	
Ethylbenzene	S14-Ja07804	CP	%	86			70-130	Pass	
m&p-Xylenes	S14-Ja07804	CP	%	88			70-130	Pass	
o-Xylene	S14-Ja07804	CP	%	88			70-130	Pass	
Xylenes - Total	S14-Ja07804	CP	%	88			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S14-Ja07804	CP	%	75			70-130	Pass	
TRH C6-C10	S14-Ja07804	CP	%	92			70-130	Pass	
TRH >C10-C16	S14-Ja07804	CP	%	119			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S14-Ja07804	CP	%	97			70-130	Pass	
Acenaphthylene	S14-Ja07804	CP	%	91			70-130	Pass	
Anthracene	S14-Ja07804	CP	%	105			70-130	Pass	
Benz(a)anthracene	S14-Ja07804	CP	%	119			70-130	Pass	
Benzo(a)pyrene	S14-Ja07804	CP	%	110			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Benzo(b&j)fluoranthene	S14-Ja07804	CP	%	130			70-130	Pass	
Benzo(g.h.i)perylene	S14-Ja07804	CP	%	81			70-130	Pass	
Benzo(k)fluoranthene	S14-Ja07804	CP	%	92			70-130	Pass	
Chrysene	S14-Ja07804	CP	%	120			70-130	Pass	
Dibenz(a.h)anthracene	S14-Ja07804	CP	%	72			70-130	Pass	
Fluoranthene	S14-Ja07804	CP	%	125			70-130	Pass	
Fluorene	S14-Ja07804	CP	%	97			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja07804	CP	%	86			70-130	Pass	
Naphthalene	S14-Ja07804	CP	%	97			70-130	Pass	
Phenanthrene	S14-Ja07804	CP	%	109			70-130	Pass	
Pyrene	S14-Ja07804	CP	%	121			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls (PCB)				Result 1					
Aroclor-1260	S14-Ja07804	CP	%	85			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S14-Ja07804	CP	%	88			70-130	Pass	
Cadmium	S14-Ja07804	CP	%	101			70-130	Pass	
Chromium	S14-Ja07804	CP	%	94			70-130	Pass	
Mercury	S14-Ja07804	CP	%	78			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S14-Ja07781	CP	mg/kg	2.3	2.5	9.0	30%	Pass	
Cadmium	S14-Ja07781	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S14-Ja07781	CP	mg/kg	5.9	6.8	14	30%	Pass	
Copper	S14-Ja07781	CP	mg/kg	67	82	21	30%	Pass	
Lead	S14-Ja07781	CP	mg/kg	100	110	8.0	30%	Pass	
Mercury	S14-Ja07781	CP	mg/kg	0.11	0.14	21	30%	Pass	
Nickel	S14-Ja07781	CP	mg/kg	6.0	6.5	8.0	30%	Pass	
Zinc	S14-Ja07781	CP	mg/kg	120	98	24	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.1-Dichloroethene	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.1.1-Trichloroethane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.1.2-Trichloroethane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	S14-Ja07760	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromoethane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.2-Dichlorobenzene	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.2-Dichloroethane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.2-Dichloropropane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.2.3-Trichloropropane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.2.4-Trimethylbenzene	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.3-Dichlorobenzene	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.3-Dichloropropane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.3.5-Trimethylbenzene	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.4-Dichlorobenzene	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
2-Butanone (MEK)	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4-Chlorotoluene	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Bromobenzene	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Bromochloromethane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	

Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
Bromodichloromethane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Bromoform	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Bromomethane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Carbon disulfide	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Carbon Tetrachloride	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Chlorobenzene	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Chloroethane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Chloroform	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Chloromethane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
cis-1.2-Dichloroethene	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
cis-1.3-Dichloropropene	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dibromochloromethane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dibromomethane	S14-Ja07760	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorodifluoromethane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Iodomethane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Isopropyl benzene (Cumene)	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methylene Chloride	S14-Ja07760	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Styrene	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Tetrachloroethene	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
trans-1.2-Dichloroethene	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
trans-1.3-Dichloropropene	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Trichloroethene	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Trichlorofluoromethane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Vinyl chloride	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S14-Ja07789	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S14-Ja07789	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S14-Ja07789	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S14-Ja07789	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	S14-Ja07789	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S14-Ja07789	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	S14-Ja07789	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-BHC	S14-Ja07789	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S14-Ja07789	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S14-Ja07789	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S14-Ja07789	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S14-Ja07789	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S14-Ja07789	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S14-Ja07789	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S14-Ja07789	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	S14-Ja07789	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S14-Ja07789	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S14-Ja07789	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S14-Ja07789	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S14-Ja07789	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Toxaphene	S14-Ja07789	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls (PCB)				Result 1	Result 2	RPD			
Aroclor-1016	S14-Ja07789	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1232	S14-Ja07789	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1242	S14-Ja07789	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1248	S14-Ja07789	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1254	S14-Ja07789	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1260	S14-Ja07789	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
				Result 1	Result 2	RPD			
Conductivity (1:5 aqueous extract at 25°C)	S14-Ja07789	CP	uS/cm	160	160	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S14-Ja07804	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S14-Ja07804	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S14-Ja07804	CP	mg/kg	58	95	49	30%	Fail	Q15
TRH C29-C36	S14-Ja07804	CP	mg/kg	100	150	38	30%	Fail	Q15
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S14-Ja07804	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S14-Ja07804	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S14-Ja07804	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S14-Ja07804	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S14-Ja07804	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total	S14-Ja07804	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S14-Ja07804	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S14-Ja07804	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S14-Ja07804	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S14-Ja07804	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S14-Ja07804	CP	mg/kg	130	210	44	30%	Fail	Q15
TRH >C34-C40	S14-Ja07804	CP	mg/kg	140	180	25	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S14-Ja07804	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S14-Ja07804	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S14-Ja07804	CP	mg/kg	0.6	0.8	35	30%	Fail	Q15
Benz(a)anthracene	S14-Ja07804	CP	mg/kg	2.0	2.7	30	30%	Pass	
Benzo(a)pyrene	S14-Ja07804	CP	mg/kg	2.4	2.9	18	30%	Pass	
Benzo(b&j)fluoranthene	S14-Ja07804	CP	mg/kg	1.8	2.2	21	30%	Pass	
Benzo(g.h.i)perylene	S14-Ja07804	CP	mg/kg	1.3	1.5	14	30%	Pass	
Benzo(k)fluoranthene	S14-Ja07804	CP	mg/kg	2.6	3.1	18	30%	Pass	
Chrysene	S14-Ja07804	CP	mg/kg	1.9	2.5	27	30%	Pass	
Dibenz(a.h)anthracene	S14-Ja07804	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S14-Ja07804	CP	mg/kg	3.0	4.2	32	30%	Fail	Q15
Fluorene	S14-Ja07804	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja07804	CP	mg/kg	1.2	1.3	8.0	30%	Pass	
Naphthalene	S14-Ja07804	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S14-Ja07804	CP	mg/kg	1.1	1.6	42	30%	Fail	Q15
Pyrene	S14-Ja07804	CP	mg/kg	3.1	4.2	29	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S14-Ja07804	CP	mg/kg	17	9.8	53	30%	Fail	Q15
Cadmium	S14-Ja07804	CP	mg/kg	0.7	0.6	2.0	30%	Pass	
Chromium	S14-Ja07804	CP	mg/kg	29	24	19	30%	Pass	
Copper	S14-Ja07804	CP	mg/kg	1700	340	130	30%	Fail	Q15
Lead	S14-Ja07804	CP	mg/kg	870	570	42	30%	Fail	Q15
Mercury	S14-Ja07804	CP	mg/kg	0.22	0.15	39	30%	Fail	Q15
Nickel	S14-Ja07804	CP	mg/kg	23	19	16	30%	Pass	
Zinc	S14-Ja07804	CP	mg/kg	750	660	13	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Conductivity (1:5 aqueous extract at 25°C)	S14-Ja07811	CP	uS/cm	170	170	1.0	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q15	The RPD reported passes Eurofins | mgt's Acceptance Criteria as stipulated in SOP 05. Refer to Glossary Page of this report for further details

Authorised By

Jean Heng	Client Services
Bob Symons	Senior Analyst-Inorganic (NSW)
James Norford	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)
Ryan Hamilton	Senior Analyst-Volatile (NSW)

Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

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Unit F3-F6 Building F, Parkview Building
16 Mars Road, Lane Cove West
NSW 2066

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*405944

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 47182
PROJECT NAME: Green Square Block 5B
SEND REPORT TO: N Cussane SEND INVOICE TO: G NZ
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: T Crease
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: ncussane@jbsg.com.au
QC LEVEL: NEPM (2013)

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	JB1	JB1T	JB1A	JB2	JB2A	B10	JB2/JBL	JB3/JBL	JB4	JBL	8 Metals	TRH	BTEX	PAH	PH	EC	VOCs	NOTES:
FC007 0.0	Soil	16.1.14		Jars Ice																			
FC007 0.5																X	X		X	X			
FC007 1.0																X	X		X	X			
FC007 2.0																X	X				X		
FC007 3.0																							
FC007 4.0																							
FC007 5.5																							
FC007 6.5																X	X		X	X			
FC012 0.0																							
FC012 0.5																							
FC012 1.0									X											X	X		ID
FC012 2.0																							
FC012 3.0																X	X		X	X			
FC012 4.0																X	X		X	X			
FC012 5.5																							
FC013 0.0									X											X	X		
FC013 1.0																							
FC013 2.0																							
FC013 3.0																							

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Nathan DATE: 17.01.14	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE:	
NAME: DATE:	CONSIGNMENT NOTE NO.	OF:	COOLER TEMP ..... deg C
OF:	TRANSPORT CO	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
		OF:	COOLER TEMP ..... deg C

RECEIVED 17 JAN 2014 BY: Sean D: 635

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - eurofins mgt

JB1 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1T - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos
JB2 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
B10 - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2/JBL - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)
JB3/JBL - TRH/BTEX/PAH/OCP/OPP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)/Asbestos
JB4 - TRH/BTEX/VOC
JBL - TCLP(PAH & 6 Metals)

10.5 17/1/14 1-35pm

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16 Mars Road, Lane Cove West
NSW 2066

Page 2 of 3

*405944

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 47182
PROJECT NAME: Green Square Block F8
SEND REPORT TO: N Cussen SEND INVOICE TO: G NJ
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: T Crease
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: ncussen@jbsg.com.au
QC LEVEL: NEPM (2013)

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	JB1	JB1T	JB1A	JB2	JB2A	B10	JB2/JBL	JB3/JBL	JB4	JBL	8 Metals	TRH	PAH	PH	EC	NOTES:
FC013 4.0	Soil	16.01.14		Ice												X	X	X	X	X	20
FC013 5.0																					
FC013 6.5																X	X	X	X	X	
FC014 0.0																					
FC014 1.0																X	X	X	X	X	
FC014 2.0									X										X	X	25
FC014 3.0																					
FC014 4.0																					
FC014 5.0																X	X	X	X	X	
FC014 6.5																					
FC011 0.0																X	X	X	X	X	
FC011 0.3																					
FC011 1.0																X	X	X	X	X	
FC011 2.0																X	X	X	X	X	
FC011 3.0																					
FC011 4.0									X										X	X	
FC011 5.5																					
FC011 6.5																					
QC19									X												

RELINQUISHED BY:
NAME: Nathan DATE: 17.01.14
OF: JBS&G

METHOD OF SHIPMENT:
CONSIGNMENT NOTE NO.
TRANSPORT CO.

RECEIVED BY:
NAME:
DATE: 17 JAN 2014
OF:

FOR RECEIVING LAB USE ONLY:
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C

NAME: DATE:
OF:

CONSIGNMENT NOTE NO.
TRANSPORT CO

NAME: DATE:
OF: BY: Sean [35

COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

JB1 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1T - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos
JB2 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
B10 - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2/JBL - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)
JB3/JBL - TRH/BTEX/PAH/OCP/OPP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)/Asbestos
JB4 - TRH/BTEX/VOC
JBL - TCLP(PAH & 6 Metals)

10.5
17/1/14
1.35pm

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16 Mars Road, Lane Cove West
NSW 2066

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#405944

JBS&G

CHAIN OF CUSTODY

PROJECT NO.: 43182
PROJECT NAME: Green Square Block 5B
SEND REPORT TO: N Cullum SEND INVOICE TO: As NJ
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: T Crease
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: ncullum@jbsg.com.au
QC LEVEL: NEPM (2013)

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	JBS&G SPECIFIC SUITES: JB1	JB1T	JB1A	JB2	JB2A	B10	JB2/JBL	JB3/JBL	JB4	JBL	8 Metals	TRH	PAH	pH	Lead	VOCs	BTEX	NOTES:
QC20	Soil	16.1.14		Jar + Ice												X	Y				X		
Trip Spike (TS)	water	↓		Vial + Ice																		X	
Trip Blank (TB)	↓			↓																		X	
Rinsate				Vial/Bottle + Ice												X	Y	X				Y	

RELINQUISHED BY:
NAME: Nathan DATE: 17.01.14
OF: JBS&G

METHOD OF SHIPMENT:
CONSIGNMENT NOTE NO.
TRANSPORT CO.

RECEIVED BY:
NAME:
DATE:
OF:

RECEIVED
17 JAN 2014
BY: Sean O. 135

FOR RECEIVING LAB USE ONLY:
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C

NAME: DATE:
OF:

CONSIGNMENT NOTE NO.
TRANSPORT CO

NAME:
DATE:
OF:

COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - eurofins mgt

JB1 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1T - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos
JB2 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
B10 - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2/JBL - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)
JB3/JBL - TRH/BTEX/PAH/OCP/OPP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)/Asbestos
JB4 - TRH/BTEX/VOC
JBL - TCLP(PAH & 6 Metals)

10.5
17/1/14
1-35PM

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Site # 1254 & 14271

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Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Sample Receipt Advice

Company name: **JBS & G (NSW & WA) Pty Ltd**

Contact name: Nathan Cussen
Client job number: GREEN SQUARE BLOCK 5B 43182
COC number: Not provided
Turn around time: 5 Day
Date/Time received: Jan 16, 2014 8:56 AM
Eurofins | mgt reference: **405753**

Sample information

☑ A detailed list of analytes logged into our LIMS, is included in the attached summary table.

☑ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt Sample Receipt : 11 degrees Celsius.

☑ All samples have been received as described on the above COC.

☑ COC has been completed correctly.

☑ Attempt to chill was evident.

☑ Appropriately preserved sample containers have been used.

☒ All samples were received in good condition.

☑ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.

☑ Organic samples had Teflon liners.

☒ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Notes

Sample FC009 5.8-6.0 not received. Analysis cancelled.

Contact notes

If you have any questions with respect to these samples please contact:

Jean Heng on Phone : (+61) (2) 9900 8400 or by e.mail: JeanHeng@eurofins.com.au

Results will be delivered electronically via e.mail to Nathan Cussen - ncussen@jbsg.com.au.

Eurofins | mgt Sample Receipt

eurofins | mgt

ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

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Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: GREEN SQUARE BLOCK 5B 43182

Order No.:
Report #: 405753
Phone: 02 8245 0300
Fax:

Received: Jan 16, 2014 8:56 AM
Due: Jan 23, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	CANCELLED	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	Total Recoverable Hydrocarbons	JBS&G Suite 2
Laboratory where analysis is conducted													
Melbourne Laboratory - NATA Site # 1254 & 14271													
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794													
External Laboratory													
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**									
FC009 0.2-0.3	Jan 14, 2014		Soil	S14-Ja06214	X								X
FC009 0.8-1.0	Jan 14, 2014		Soil	S14-Ja06215				X					
FC009 1.5-1.7	Jan 14, 2014		Soil	S14-Ja06216				X					
FC009 2.8-3.0	Jan 14, 2014		Soil	S14-Ja06217	X		X		X	X	X	X	
FC009 5.8-6.0	Jan 14, 2014		Soil	S14-Ja06218		X							

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Certificate of Analysis

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Nathan Cussen**

Report **405753-S**
Client Reference GREEN SQUARE BLOCK 5B 43182
Received Date Jan 16, 2014

Client Sample ID **Sample Matrix** **Eurofins | mgt Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**FC009 0.2-0.3** **Soil** **S14-Ja06214** **Jan 14, 2014**	**FC009 2.8-3.0** **Soil** **S14-Ja06217** **Jan 14, 2014**
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				
TRH C6-C9	20	mg/kg	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50
TRH C10-36 (Total)	50	mg/kg	< 50	< 50
BTEX				
Benzene	0.1	mg/kg	< 0.1	-
Toluene	0.1	mg/kg	< 0.1	-
Ethylbenzene	0.1	mg/kg	< 0.1	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-
o-Xylene	0.1	mg/kg	< 0.1	-
Xylenes - Total	0.3	mg/kg	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	122	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC009 0.2-0.3 Soil S14-Ja06214 Jan 14, 2014	FC009 2.8-3.0 Soil S14-Ja06217 Jan 14, 2014
Polycyclic Aromatic Hydrocarbons				
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5
Total PAH	0.5	mg/kg	< 0.5	< 0.5
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	0.6	0.6
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	1.2	1.2
2-Fluorobiphenyl (surr.)	1	%	87	92
p-Terphenyl-d14 (surr.)	1	%	96	103
Organochlorine Pesticides				
Chlordanes - Total	0.1	mg/kg	< 0.1	-
4.4'-DDD	0.05	mg/kg	< 0.05	-
4.4'-DDE	0.05	mg/kg	< 0.05	-
4.4'-DDT	0.05	mg/kg	< 0.05	-
a-BHC	0.05	mg/kg	< 0.05	-
Aldrin	0.05	mg/kg	< 0.05	-
b-BHC	0.05	mg/kg	< 0.05	-
d-BHC	0.05	mg/kg	< 0.05	-
Dieldrin	0.05	mg/kg	< 0.05	-
Endosulfan I	0.05	mg/kg	< 0.05	-
Endosulfan II	0.05	mg/kg	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-
Endrin	0.05	mg/kg	< 0.05	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-
Endrin ketone	0.05	mg/kg	< 0.05	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-
Heptachlor	0.05	mg/kg	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-
Methoxychlor	0.2	mg/kg	< 0.2	-
Toxaphene	1	mg/kg	< 1	-
Dibutylchlorendate (surr.)	1	%	80	-
Tetrachloro-m-xylene (surr.)	1	%	82	-
Polychlorinated Biphenyls (PCB)				
Aroclor-1016	0.5	mg/kg	< 0.5	-
Aroclor-1232	0.5	mg/kg	< 0.5	-
Aroclor-1242	0.5	mg/kg	< 0.5	-
Aroclor-1248	0.5	mg/kg	< 0.5	-
Aroclor-1254	0.5	mg/kg	< 0.5	-
Aroclor-1260	0.5	mg/kg	< 0.5	-
Total PCB	0.5	mg/kg	< 0.5	-
Dibutylchlorendate (surr.)	1	%	80	-
Conductivity (1:5 aqueous extract at 25°C)	5	uS/cm	-	68
pH (1:5 Aqueous extract)	0.1	units	-	9.2
% Moisture	0.1	%	3.3	9.8

Client Sample ID			FC009 0.2-0.3	FC009 2.8-3.0
Sample Matrix			**Soil**	**Soil**
Eurofins | mgt Sample No.			**S14-Ja06214**	**S14-Ja06217**
Date Sampled			**Jan 14, 2014**	**Jan 14, 2014**
Test/Reference	LOR	Unit		
Heavy Metals				
Arsenic	2	mg/kg	< 2	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4
Chromium	5	mg/kg	9.4	< 5
Copper	5	mg/kg	170	< 5
Lead	5	mg/kg	< 5	< 5
Mercury	0.05	mg/kg	< 0.05	0.15
Nickel	5	mg/kg	12	< 5
Zinc	5	mg/kg	40	< 5

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Jan 17, 2014	14 Day
- Method: E004 Petroleum Hydrocarbons (TPH)			
BTEX	Sydney	Jan 17, 2014	14 Day
- Method: E029/E016 BTEX			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jan 17, 2014	14 Day
- Method: LM-LTM-ORG2010			
Polycyclic Aromatic Hydrocarbons	Sydney	Jan 17, 2014	14 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Organochlorine Pesticides	Sydney	Jan 17, 2014	14 Day
- Method: E013 Organochlorine Pesticides (OC)			
Polychlorinated Biphenyls (PCB)	Sydney	Jan 17, 2014	28 Day
- Method: E013 Polychlorinated Biphenyls (PCB)			
Metals M8	Sydney	Jan 17, 2014	28 Day
- Method: E022 Acid Extractable metals in Soils & E026 Mercury			
Conductivity (1:5 aqueous extract at 25°C)	Sydney	Jan 17, 2014	7 Day
- Method: E032.2 Electrical Conductivity (EC)			
pH (1:5 Aqueous extract)	Sydney	Jan 17, 2014	7 Day
- Method: E018.2 pH			
% Moisture	Sydney	Jan 17, 2014	28 Day
- Method: E005 Moisture Content			

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NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: GREEN SQUARE BLOCK 5B 43182

Order No.:
Report #: 405753
Phone: 02 8245 0300
Fax:

Received: Jan 16, 2014 8:56 AM
Due: Jan 23, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	CANCELLED	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	Total Recoverable Hydrocarbons	JBS&G Suite 2
Laboratory where analysis is conducted													
Melbourne Laboratory - NATA Site # 1254 & 14271													
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794													
External Laboratory													
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**									
FC009 0.2-0.3	Jan 14, 2014		Soil	S14-Ja06214	X								X
FC009 0.8-1.0	Jan 14, 2014		Soil	S14-Ja06215				X					
FC009 1.5-1.7	Jan 14, 2014		Soil	S14-Ja06216				X					
FC009 2.8-3.0	Jan 14, 2014		Soil	S14-Ja06217	X		X		X	X	X	X	
FC009 5.8-6.0	Jan 14, 2014		Soil	S14-Ja06218		X							

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH C6-C10 less BTEX (F1)	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-BHC	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-BHC	mg/kg	< 0.05			0.05	Pass	
d-BHC	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-BHC (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.2			0.2	Pass	
Toxaphene	mg/kg	< 1			1	Pass	
Method Blank							
Polychlorinated Biphenyls (PCB)							
Aroclor-1016	mg/kg	< 0.5			0.5	Pass	
Aroclor-1232	mg/kg	< 0.5			0.5	Pass	
Aroclor-1242	mg/kg	< 0.5			0.5	Pass	
Aroclor-1248	mg/kg	< 0.5			0.5	Pass	
Aroclor-1254	mg/kg	< 0.5			0.5	Pass	
Aroclor-1260	mg/kg	< 0.5			0.5	Pass	
Total PCB	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.05			0.05	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	108			70-130	Pass	
TRH C10-C14	%	79			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	115			70-130	Pass	
Toluene	%	108			70-130	Pass	
Ethylbenzene	%	107			70-130	Pass	
m&p-Xylenes	%	107			70-130	Pass	
o-Xylene	%	112			70-130	Pass	
Xylenes - Total	%	109			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	74			70-130	Pass	
TRH C6-C10	%	109			70-130	Pass	
TRH >C10-C16	%	85			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	107			70-130	Pass	
Acenaphthylene	%	103			70-130	Pass	
Anthracene	%	102			70-130	Pass	
Benz(a)anthracene	%	96			70-130	Pass	
Benzo(a)pyrene	%	101			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Benzo(b&j)fluoranthene	%	96			70-130	Pass	
Benzo(g.h.i)perylene	%	101			70-130	Pass	
Benzo(k)fluoranthene	%	105			70-130	Pass	
Chrysene	%	109			70-130	Pass	
Dibenz(a.h)anthracene	%	103			70-130	Pass	
Fluoranthene	%	98			70-130	Pass	
Fluorene	%	105			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	101			70-130	Pass	
Naphthalene	%	107			70-130	Pass	
Phenanthrene	%	98			70-130	Pass	
Pyrene	%	95			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	125			70-130	Pass	
4.4'-DDD	%	127			70-130	Pass	
4.4'-DDE	%	121			70-130	Pass	
4.4'-DDT	%	129			70-130	Pass	
a-BHC	%	123			70-130	Pass	
Aldrin	%	124			70-130	Pass	
b-BHC	%	128			70-130	Pass	
d-BHC	%	122			70-130	Pass	
Dieldrin	%	124			70-130	Pass	
Endosulfan I	%	125			70-130	Pass	
Endosulfan II	%	128			70-130	Pass	
Endosulfan sulphate	%	129			70-130	Pass	
Endrin	%	126			70-130	Pass	
Endrin aldehyde	%	125			70-130	Pass	
Endrin ketone	%	130			70-130	Pass	
g-BHC (Lindane)	%	125			70-130	Pass	
Heptachlor	%	120			70-130	Pass	
Heptachlor epoxide	%	125			70-130	Pass	
Hexachlorobenzene	%	101			70-130	Pass	
Methoxychlor	%	126			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls (PCB)							
Aroclor-1260	%	106			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	88			70-130	Pass	
Cadmium	%	93			70-130	Pass	
Chromium	%	96			70-130	Pass	
Copper	%	107			70-130	Pass	
Lead	%	97			70-130	Pass	
Mercury	%	102			70-130	Pass	
Nickel	%	99			70-130	Pass	
Zinc	%	105			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S14-Ja05820	NCP	%	88			70-130	Pass	
TRH C10-C14	S14-Ja06185	NCP	%	79			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S14-Ja05820	NCP	%	107			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Toluene	S14-Ja05820	NCP	%	100			70-130	Pass	
Ethylbenzene	S14-Ja05820	NCP	%	98			70-130	Pass	
m&p-Xylenes	S14-Ja05820	NCP	%	99			70-130	Pass	
o-Xylene	S14-Ja05820	NCP	%	105			70-130	Pass	
Xylenes - Total	S14-Ja05820	NCP	%	101			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S14-Ja05820	NCP	%	73			70-130	Pass	
TRH C6-C10	S14-Ja05820	NCP	%	91			70-130	Pass	
TRH >C10-C16	S14-Ja06185	NCP	%	86			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S14-Ja04342	NCP	%	107			70-130	Pass	
Acenaphthylene	S14-Ja04342	NCP	%	106			70-130	Pass	
Anthracene	S14-Ja04342	NCP	%	99			70-130	Pass	
Benz(a)anthracene	S14-Ja04342	NCP	%	101			70-130	Pass	
Benzo(a)pyrene	S14-Ja04342	NCP	%	108			70-130	Pass	
Benzo(b&j)fluoranthene	S14-Ja04342	NCP	%	99			70-130	Pass	
Benzo(g.h.i)perylene	S14-Ja04342	NCP	%	106			70-130	Pass	
Benzo(k)fluoranthene	S14-Ja04342	NCP	%	109			70-130	Pass	
Chrysene	S14-Ja04342	NCP	%	110			70-130	Pass	
Dibenz(a.h)anthracene	S14-Ja04342	NCP	%	103			70-130	Pass	
Fluoranthene	S14-Ja04342	NCP	%	98			70-130	Pass	
Fluorene	S14-Ja04342	NCP	%	102			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja04342	NCP	%	104			70-130	Pass	
Naphthalene	S14-Ja04342	NCP	%	105			70-130	Pass	
Phenanthrene	S14-Ja04342	NCP	%	96			70-130	Pass	
Pyrene	S14-Ja04342	NCP	%	95			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S14-Ja06185	NCP	%	80			70-130	Pass	
Cadmium	S14-Ja06185	NCP	%	102			70-130	Pass	
Chromium	S14-Ja06185	NCP	%	103			70-130	Pass	
Copper	S14-Ja06185	NCP	%	78			70-130	Pass	
Lead	S14-Ja06185	NCP	%	97			70-130	Pass	
Mercury	S14-Ja06056	NCP	%	99			70-130	Pass	
Nickel	S14-Ja06185	NCP	%	98			70-130	Pass	
Zinc	S14-Ja06185	NCP	%	103			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S14-Ja05820	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S14-Ja06185	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S14-Ja06185	NCP	mg/kg	75	98	26	30%	Pass	
TRH C29-C36	S14-Ja06185	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S14-Ja05820	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S14-Ja05820	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S14-Ja05820	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S14-Ja05820	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S14-Ja05820	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total	S14-Ja05820	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	

Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S14-Ja05820	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S14-Ja05820	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S14-Ja05820	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S14-Ja06185	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S14-Ja06185	NCP	mg/kg	< 100	120	32	30%	Fail	Q15
TRH >C34-C40	S14-Ja06185	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S14-Ja04342	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S14-Ja04342	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S14-Ja04342	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S14-Ja04342	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S14-Ja04342	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S14-Ja04342	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S14-Ja04342	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S14-Ja04342	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S14-Ja04342	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S14-Ja04342	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S14-Ja04342	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S14-Ja04342	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja04342	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S14-Ja04342	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S14-Ja04342	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S14-Ja04342	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S14-Ja05804	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S14-Ja05804	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S14-Ja05804	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S14-Ja05804	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	S14-Ja05804	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S14-Ja05804	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	S14-Ja05804	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-BHC	S14-Ja05804	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S14-Ja05804	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S14-Ja05804	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S14-Ja05804	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S14-Ja05804	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S14-Ja05804	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S14-Ja05804	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S14-Ja05804	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	S14-Ja05804	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S14-Ja05804	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S14-Ja05804	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S14-Ja05804	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S14-Ja05804	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Toxaphene	S14-Ja05804	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls (PCB)				Result 1	Result 2	RPD			
Aroclor-1016	S14-Ja05804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1232	S14-Ja05804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1242	S14-Ja05804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1248	S14-Ja05804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1254	S14-Ja05804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1260	S14-Ja05804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S14-Ja06185	NCP	mg/kg	7.9	8.3	5.0	30%	Pass	
Cadmium	S14-Ja06185	NCP	mg/kg	< 0.4	0.50	54	30%	Fail	Q15
Chromium	S14-Ja06185	NCP	mg/kg	< 5	5.5	36	30%	Fail	Q15
Copper	S14-Ja06185	NCP	mg/kg	47	42	12	30%	Pass	
Lead	S14-Ja06185	NCP	mg/kg	5.6	< 5	36	30%	Fail	Q15
Mercury	S14-Ja06056	NCP	mg/kg	0.23	0.22	1.0	30%	Pass	
Nickel	S14-Ja06185	NCP	mg/kg	< 5	5.6	26	30%	Pass	
Zinc	S14-Ja06185	NCP	mg/kg	13	24	56	30%	Fail	Q15
Duplicate									
				Result 1	Result 2	RPD			
Conductivity (1:5 aqueous extract at 25°C)	S14-Ja06185	NCP	uS/cm	200	210	3.0	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q15	The RPD reported passes Eurofins | mgt's Acceptance Criteria as stipulated in SOP 05. Refer to Glossary Page of this report for further details

Authorised By

Jean Heng	Client Services
Bob Symons	Senior Analyst-Inorganic (NSW)
James Norford	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)
Ryan Hamilton	Senior Analyst-Volatile (NSW)

Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

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eurofins | mgt
Unit F3-F6 Building F, Parkview Building
16 Mars Road, Lane Cove West
NSW 2066

Page 1 of 1

CHAIN OF CUSTODY

* 405783

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square Block 5B
SEND REPORT TO: M Cussen SEND INVOICE TO: E NJ
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: Chris
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: Mcussen
QC LEVEL: NEPM (2013)

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	JB1	JB1T	JB1A	JB2	JB2A	B10	JB2/JBL	JB3/JBL	JB4	JBL	8 Metals	TRH	PAH	pH	EC						NOTES:
FC009 0.2-0.3	Soil	14.01.14		Jar + Ice					X							X	X	X	X	X						
FC009 0.8-1.0																										
FC009 1.5-1.7																										
FC009 2.8-3.0																										
FC009 5.9-6.0																										

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Nathan DATE: 16.1.14	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE:	
		OF:	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - eurofins mgt

JB1 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1T - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos
JB2 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
B10 - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2/JBL - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)
JB3/JBL - TRH/BTEX/PAH/OCP/OPP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)/Asbestos
JB4 - TRH/BTEX/VOC
JBL - TCLP(PAH & 6 Metals)

RECEIVED
16 JAN 2014
BY: Sean O 8.56

-----Original Message-----
From: Nathan Cussen [mailto:NCussen@jbsg.com.au]
Sent: Thursday, 16 January 2014 8:56 AM
To: Jean Heng
Subject: 43182 COC documentation

Hi Jean,

Please find attached two COC's which did not make it with the last lab batches.

Also, the guys on site inform me that samples FC010 5.8-6.0 and FC034 0.8-1.0 broke. So you can you please cross them off the relevant COC's if not received.

I have also been informed by the guys on site that samples starting withF004..... are still with the guys onsite. I will get them send to you with the next lab batch.

Just a heads up that you can expect another large lab batch today.

Sorry for the confusion,
Nathan

-----Original Message-----
From: scanners@jbsgroup.com.au [mailto:scanners@jbsgroup.com.au]
Sent: Thursday, 16 January 2014 8:31 AM
To: Nathan Cussen
Subject:

TASKalfa 3500i
[00:c0:ee:89:11:4e]

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Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Sample Receipt Advice

Company name: **JBS & G (NSW & WA) Pty Ltd**

Contact name: Nathan Cussen
Client job number: GREEN SQUARE DEVELOPMENT BLOCK 5B
COC number: Not provided
Turn around time: 5 Day
Date/Time received: Jan 15, 2014 3:45 PM
Eurofins | mgt reference: **405724**

Sample information

☑ A detailed list of analytes logged into our LIMS, is included in the attached summary table.

☑ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt Sample Receipt : 11 degrees Celsius.

☑ All samples have been received as described on the above COC.

☑ COC has been completed correctly.

☑ Attempt to chill was evident.

☑ Appropriately preserved sample containers have been used.

☑ All samples were received in good condition.

☑ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.

☑ Organic samples had Teflon liners.

☒ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Contact notes

If you have any questions with respect to these samples please contact:

Jean Heng on Phone : (+61) (2) 9900 8400 or by e.mail: JeanHeng@eurofins.com.au

Results will be delivered electronically via e.mail to Nathan Cussen - ncussen@jbsg.com.au.

Eurofins | mgt Sample Receipt

eurofins | mgt

ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

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Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: GREEN SQUARE DEVELOPMENT BLOCK 5B

Order No.:
Report #: 405724
Phone: 02 8245 0300
Fax:

Received: Jan 15, 2014 3:45 PM
Due: Jan 22, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	Total Recoverable Hydrocarbons	Foreign Materials - ENM	JBS&G Suite 2
Laboratory where analysis is conducted													
Melbourne Laboratory - NATA Site # 1254 & 14271													
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794													
External Laboratory													
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**									
FC008 0.2-0.3	Jan 14, 2014		Soil	S14-Ja05801			X						
FC008 0.8-1.0	Jan 14, 2014		Soil	S14-Ja05802	X	X		X	X	X	X		
FC008 1.8-2.0	Jan 14, 2014		Soil	S14-Ja05803			X						
FC008 3.8-4.0	Jan 14, 2014		Soil	S14-Ja05804	X	X		X				X	X
FC008 6.1-6.3	Jan 14, 2014		Soil	S14-Ja05805			X						
FC010 0.2-0.3	Jan 14, 2014		Soil	S14-Ja05806	X	X		X					X
FC010 0.8-1.0	Jan 14, 2014		Soil	S14-Ja05807			X						
FC010 1.8-2.0	Jan 14, 2014		Soil	S14-Ja05808	X	X		X	X	X	X		
FC010 2.8-3.0	Jan 14, 2014		Soil	S14-Ja05809			X						
FC010 5.8-6.0	Jan 14, 2014		Soil	S14-Ja05810	X	X		X					X

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ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

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Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	Total Recoverable Hydrocarbons	Foreign Materials - ENM	JBS&G Suite 2
Laboratory where analysis is conducted													
Melbourne Laboratory - NATA Site # 1254 & 14271													
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794													
External Laboratory													
FC011 0.2-0.3	Jan 14, 2014		Soil	S14-Ja05811	X	X		X	X	X	X		
FC011 0.8-1.0	Jan 14, 2014		Soil	S14-Ja05812	X	X		X	X	X	X		
FC011 1.8-2.0	Jan 14, 2014		Soil	S14-Ja05813			X						
FC011 3.8-4.0	Jan 14, 2014		Soil	S14-Ja05814	X	X		X					X
FC011 5.8-6.0	Jan 14, 2014		Soil	S14-Ja05815			X						
FC092 0.2-0.3	Jan 14, 2014		Soil	S14-Ja05816	X	X		X					X
FC092 0.8-1.0	Jan 14, 2014		Soil	S14-Ja05817			X						
FC092 1.8-2.0	Jan 14, 2014		Soil	S14-Ja05818	X	X		X	X	X	X		
FC092 3.8-4.0	Jan 14, 2014		Soil	S14-Ja05819			X						
FC092 5.8-6.0	Jan 14, 2014		Soil	S14-Ja05820	X	X		X	X	X	X		
FC093 0.2-0.3	Jan 14, 2014		Soil	S14-Ja05821	X				X	X	X		

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Received: Jan 15, 2014 3:45 PM
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Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	Total Recoverable Hydrocarbons	Foreign Materials - ENM	JBS&G Suite 2
Laboratory where analysis is conducted													
Melbourne Laboratory - NATA Site # 1254 & 14271													
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794													
External Laboratory													
FC093 0.8-1.0	Jan 14, 2014		Soil	S14-Ja05822	X	X		X					X
FC093 1.8-2.0	Jan 14, 2014		Soil	S14-Ja05823			X						
FC093 3.9-4.1	Jan 14, 2014		Soil	S14-Ja05824			X						
FC093 5.9-6.1	Jan 14, 2014		Soil	S14-Ja05825	X	X		X	X	X	X		
QC11	Jan 14, 2014		Soil	S14-Ja05826			X						
QC12	Jan 14, 2014		Soil	S14-Ja05827	X								X

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Certificate of Analysis

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Nathan Cussen**

Report **405724-S**
Client Reference GREEN SQUARE DEVELOPMENT BLOCK 5B
Received Date Jan 15, 2014

Client Sample ID **Sample Matrix** **Eurofins | mgt Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**FC008 0.8-1.0** **Soil** **S14-Ja05802** **Jan 14, 2014**	**FC008 3.8-4.0** **Soil** **S14-Ja05804** **Jan 14, 2014**	**FC010 0.2-0.3** **Soil** **S14-Ja05806** **Jan 14, 2014**	**FC010 1.8-2.0** **Soil** **S14-Ja05808** **Jan 14, 2014**
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	290	380
TRH C29-C36	50	mg/kg	< 50	< 50	260	310
TRH C10-36 (Total)	50	mg/kg	< 50	< 50	550	690
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	< 0.1	-
Toluene	0.1	mg/kg	-	< 0.1	< 0.1	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	< 0.1	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	< 0.2	-
o-Xylene	0.1	mg/kg	-	< 0.1	< 0.1	-
Xylenes - Total	0.3	mg/kg	-	< 0.3	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	-	112	116	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	510	630
TRH >C34-C40	100	mg/kg	< 100	< 100	180	230
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	0.6	1.6
Anthracene	0.5	mg/kg	< 0.5	< 0.5	1.2	3.1
Benz(a)anthracene	0.5	mg/kg	1.1	< 0.5	5.5	8.3
Benzo(a)pyrene	0.5	mg/kg	1.4	< 0.5	8.4	12
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	1.0	< 0.5	5.2	5.1
Benzo(g.h.i)perylene	0.5	mg/kg	1.1	< 0.5	5.6	7.6
Benzo(k)fluoranthene	0.5	mg/kg	1.5	< 0.5	8.4	11
Chrysene	0.5	mg/kg	1.0	< 0.5	5.9	8.4
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	1.3	2.0
Fluoranthene	0.5	mg/kg	2.0	< 0.5	8.6	14
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.9
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	0.9	< 0.5	4.7	6.0
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.9

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC008 0.8-1.0 Soil S14-Ja05802 Jan 14, 2014	FC008 3.8-4.0 Soil S14-Ja05804 Jan 14, 2014	FC010 0.2-0.3 Soil S14-Ja05806 Jan 14, 2014	FC010 1.8-2.0 Soil S14-Ja05808 Jan 14, 2014
Polycyclic Aromatic Hydrocarbons						
Phenanthrene	0.5	mg/kg	0.9	< 0.5	3.0	8.8
Pyrene	0.5	mg/kg	2.0	< 0.5	9.9	13
Total PAH	0.5	mg/kg	13	< 0.5	68	100
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	1.9	< 0.5	12	17
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	2.1	0.6	12	17
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	2.4	1.2	12	17
2-Fluorobiphenyl (surr.)	1	%	88	88	88	87
p-Terphenyl-d14 (surr.)	1	%	91	90	81	86
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	< 0.1	-
4.4'-DDD	0.05	mg/kg	-	< 0.05	0.08	-
4.4'-DDE	0.05	mg/kg	-	< 0.05	0.09	-
4.4'-DDT	0.05	mg/kg	-	< 0.05	< 0.05	-
a-BHC	0.05	mg/kg	-	< 0.05	< 0.05	-
Aldrin	0.05	mg/kg	-	< 0.05	< 0.05	-
b-BHC	0.05	mg/kg	-	< 0.05	< 0.05	-
d-BHC	0.05	mg/kg	-	< 0.05	< 0.05	-
Dieldrin	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan I	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan II	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin ketone	0.05	mg/kg	-	< 0.05	< 0.05	-
g-BHC (Lindane)	0.05	mg/kg	-	< 0.05	< 0.05	-
Heptachlor	0.05	mg/kg	-	< 0.05	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	< 0.05	-
Methoxychlor	0.2	mg/kg	-	< 0.2	< 0.2	-
Toxaphene	1	mg/kg	-	< 1	< 1	-
Dibutylchlorendate (surr.)	1	%	-	90	79	-
Tetrachloro-m-xylene (surr.)	1	%	-	102	82	-
Polychlorinated Biphenyls (PCB)						
Aroclor-1016	0.5	mg/kg	-	< 0.5	< 0.5	-
Aroclor-1232	0.5	mg/kg	-	< 0.5	< 0.5	-
Aroclor-1242	0.5	mg/kg	-	< 0.5	< 0.5	-
Aroclor-1248	0.5	mg/kg	-	< 0.5	< 0.5	-
Aroclor-1254	0.5	mg/kg	-	< 0.5	< 0.5	-
Aroclor-1260	0.5	mg/kg	-	< 0.5	< 0.5	-
Total PCB	0.5	mg/kg	-	< 0.5	< 0.5	-
Dibutylchlorendate (surr.)	1	%	-	90	79	-
Conductivity (1:5 aqueous extract at 25°C)	5	uS/cm	110	100	150	210
pH (1:5 Aqueous extract)	0.1	units	8.5	8.8	9.4	8.2
% Moisture	0.1	%	7.2	13	7.2	13
Initial Weight	0.01	kg	-	6.8	-	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC008 0.8-1.0 Soil S14-Ja05802 Jan 14, 2014	FC008 3.8-4.0 Soil S14-Ja05804 Jan 14, 2014	FC010 0.2-0.3 Soil S14-Ja05806 Jan 14, 2014	FC010 1.8-2.0 Soil S14-Ja05808 Jan 14, 2014
Heavy Metals						
Arsenic	2	mg/kg	2.4	< 2	< 2	3.6
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	0.7
Chromium	5	mg/kg	< 5	< 5	< 5	6.6
Copper	5	mg/kg	27	< 5	45	200
Lead	5	mg/kg	33	49	59	280
Mercury	0.05	mg/kg	0.34	0.51	0.13	2.5
Nickel	5	mg/kg	< 5	< 5	7.2	11
Zinc	5	mg/kg	79	22	87	400
Foreign Material - Type I						
Metal*	0.1	%	-	< 0.1	-	-
Glass*	0.1	%	-	< 0.1	-	-
Asphalt*	0.1	%	-	0.2	-	-
Stone*	0.1	%	-	2.8	-	-
Ceramic and slag (other than blast furnace slag)*	0.1	%	-	< 0.1	-	-
Foreign Material - Type II						
Plaster*	0.1	%	-	< 0.1	-	-
Clay lumps and other friable material*	0.1	%	-	2.9	-	-
Foreign Material - Type III						
Rubber*	0.05	%	-	< 0.05	-	-
Plastic*	0.05	%	-	< 0.05	-	-
Bitumen*	0.05	%	-	< 0.05	-	-
Paper*	0.05	%	-	< 0.05	-	-
Cloth*	0.05	%	-	< 0.05	-	-
Paint*	0.05	%	-	< 0.05	-	-
Wood and other vegetable matter*	0.05	%	-	< 0.05	-	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC010 5.8-6.0 Soil S14-Ja05810 Jan 14, 2014	FC011 0.2-0.3 Soil S14-Ja05811 Jan 14, 2014	FC011 0.8-1.0 Soil S14-Ja05812 Jan 14, 2014	FC011 3.8-4.0 Soil S14-Ja05814 Jan 14, 2014
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	34	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	1100	390	220	270
TRH C29-C36	50	mg/kg	610	460	300	280
TRH C10-36 (Total)	50	mg/kg	1700	850	520	550
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	-	< 0.1
Toluene	0.1	mg/kg	< 0.1	-	-	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	-	-	< 0.1
Xylenes - Total	0.3	mg/kg	< 0.3	-	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	115	-	-	113

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC010 5.8-6.0 Soil S14-Ja05810 Jan 14, 2014	FC011 0.2-0.3 Soil S14-Ja05811 Jan 14, 2014	FC011 0.8-1.0 Soil S14-Ja05812 Jan 14, 2014	FC011 3.8-4.0 Soil S14-Ja05814 Jan 14, 2014
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	80	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	80	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	1600	750	460	500
TRH >C34-C40	100	mg/kg	420	440	300	250
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	8.3	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	5.0	2.9	0.9	1.1
Anthracene	0.5	mg/kg	16	4.6	1.5	2.0
Benz(a)anthracene	0.5	mg/kg	46	11	5.5	7.5
Benzo(a)pyrene	0.5	mg/kg	47	12	8.0	10
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	34	5.9	7.5	9.4
Benzo(g.h.i)perylene	0.5	mg/kg	24	8.0	5.1	7.3
Benzo(k)fluoranthene	0.5	mg/kg	51	12	4.0	5.1
Chrysene	0.5	mg/kg	41	9.2	5.5	7.9
Dibenz(a.h)anthracene	0.5	mg/kg	7.1	2.2	1.1	1.7
Fluoranthene	0.5	mg/kg	90	16	8.7	12
Fluorene	0.5	mg/kg	11	0.8	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	23	6.9	4.1	5.2
Naphthalene	0.5	mg/kg	9.7	1.1	0.6	0.6
Phenanthrene	0.5	mg/kg	71	8.8	2.9	4.7
Pyrene	0.5	mg/kg	76	14	8.8	11
Total PAH	0.5	mg/kg	560	120	64	86
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	70	18	11	15
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	70	18	11	15
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	70	18	11	15
2-Fluorobiphenyl (surr.)	1	%	101	97	92	88
p-Terphenyl-d14 (surr.)	1	%	112	101	102	94
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	-	-	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	-	-	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	-	-	< 0.05
a-BHC	0.05	mg/kg	< 0.05	-	-	< 0.05
Aldrin	0.05	mg/kg	< 0.05	-	-	< 0.05
b-BHC	0.05	mg/kg	< 0.05	-	-	< 0.05
d-BHC	0.05	mg/kg	< 0.05	-	-	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	-	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	-	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	< 0.05

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC010 5.8-6.0 Soil S14-Ja05810 Jan 14, 2014	FC011 0.2-0.3 Soil S14-Ja05811 Jan 14, 2014	FC011 0.8-1.0 Soil S14-Ja05812 Jan 14, 2014	FC011 3.8-4.0 Soil S14-Ja05814 Jan 14, 2014
Organochlorine Pesticides						
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	< 0.05
Methoxychlor	0.2	mg/kg	< 0.2	-	-	< 0.2
Toxaphene	1	mg/kg	< 1	-	-	< 1
Dibutylchlorendate (surr.)	1	%	98	-	-	103
Tetrachloro-m-xylene (surr.)	1	%	75	-	-	78
Polychlorinated Biphenyls (PCB)						
Aroclor-1016	0.5	mg/kg	< 0.5	-	-	< 0.5
Aroclor-1232	0.5	mg/kg	< 0.5	-	-	< 0.5
Aroclor-1242	0.5	mg/kg	< 0.5	-	-	< 0.5
Aroclor-1248	0.5	mg/kg	< 0.5	-	-	< 0.5
Aroclor-1254	0.5	mg/kg	< 0.5	-	-	< 0.5
Aroclor-1260	0.5	mg/kg	< 0.5	-	-	< 0.5
Total PCB	0.5	mg/kg	< 0.5	-	-	< 0.5
Dibutylchlorendate (surr.)	1	%	98	-	-	103
Conductivity (1:5 aqueous extract at 25°C)	5	uS/cm	170	130	130	220
pH (1:5 Aqueous extract)	0.1	units	8.3	8.7	8.2	8.1
% Moisture	0.1	%	12	2.9	6.8	16
Heavy Metals						
Arsenic	2	mg/kg	2.8	5.0	79	9.9
Cadmium	0.4	mg/kg	< 0.4	1.3	0.7	0.9
Chromium	5	mg/kg	6.1	9.6	5.1	9.1
Copper	5	mg/kg	160	470	250	230
Lead	5	mg/kg	210	330	310	680
Mercury	0.05	mg/kg	1.8	0.22	0.43	0.86
Nickel	5	mg/kg	< 5	22	9.4	23
Zinc	5	mg/kg	260	450	540	810

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC092 0.2-0.3 Soil S14-Ja05816 Jan 14, 2014	FC092 1.8-2.0 Soil S14-Ja05818 Jan 14, 2014	FC092 5.8-6.0 Soil S14-Ja05820 Jan 14, 2014	FC093 0.2-0.3 Soil S14-Ja05821 Jan 14, 2014
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	56
TRH C15-C28	50	mg/kg	220	120	240	4900
TRH C29-C36	50	mg/kg	220	170	300	2600
TRH C10-36 (Total)	50	mg/kg	440	290	540	7600
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	-	-
Toluene	0.1	mg/kg	< 0.1	-	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	-
o-Xylene	0.1	mg/kg	< 0.1	-	-	-
Xylenes - Total	0.3	mg/kg	< 0.3	-	-	-
4-Bromofluorobenzene (surr.)	1	%	110	-	-	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC092 0.2-0.3 Soil S14-Ja05816 Jan 14, 2014	FC092 1.8-2.0 Soil S14-Ja05818 Jan 14, 2014	FC092 5.8-6.0 Soil S14-Ja05820 Jan 14, 2014	FC093 0.2-0.3 Soil S14-Ja05821 Jan 14, 2014
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	3.3
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	200
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	200
TRH >C16-C34	100	mg/kg	400	250	480	7100
TRH >C34-C40	100	mg/kg	200	200	280	1600
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	5.3
Acenaphthylene	0.5	mg/kg	1.0	0.5	1.1	34
Anthracene	0.5	mg/kg	1.5	0.9	2.0	77
Benz(a)anthracene	0.5	mg/kg	5.3	2.8	6.5	140
Benzo(a)pyrene	0.5	mg/kg	7.9	4.2	11	110
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	6.6	3.6	11	83
Benzo(g.h.i)perylene	0.5	mg/kg	5.3	2.9	7.0	51
Benzo(k)fluoranthene	0.5	mg/kg	4.0	2.0	5.1	110
Chrysene	0.5	mg/kg	5.6	3.0	6.6	110
Dibenz(a.h)anthracene	0.5	mg/kg	1.1	0.6	1.5	17
Fluoranthene	0.5	mg/kg	9.4	4.5	11	250
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	17
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	3.8	2.1	5.3	53
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	8.9
Phenanthrene	0.5	mg/kg	3.5	1.9	4.3	190
Pyrene	0.5	mg/kg	8.9	4.7	10	220
Total PAH	0.5	mg/kg	64	34	82	1500
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	11	5.9	15	170
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	11	5.9	15	170
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	11	5.9	15	170
2-Fluorobiphenyl (surr.)	1	%	91	86	89	97
p-Terphenyl-d14 (surr.)	1	%	98	96	94	117
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	-
4.4'-DDD	0.05	mg/kg	< 0.05	-	-	-
4.4'-DDE	0.05	mg/kg	< 0.05	-	-	-
4.4'-DDT	0.05	mg/kg	< 0.05	-	-	-
a-BHC	0.05	mg/kg	< 0.05	-	-	-
Aldrin	0.05	mg/kg	< 0.05	-	-	-
b-BHC	0.05	mg/kg	< 0.05	-	-	-
d-BHC	0.05	mg/kg	< 0.05	-	-	-
Dieldrin	0.05	mg/kg	< 0.05	-	-	-
Endosulfan I	0.05	mg/kg	< 0.05	-	-	-
Endosulfan II	0.05	mg/kg	< 0.05	-	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	-
Endrin	0.05	mg/kg	< 0.05	-	-	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	-
Endrin ketone	0.05	mg/kg	< 0.05	-	-	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	-	-
Heptachlor	0.05	mg/kg	< 0.05	-	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC092 0.2-0.3 Soil S14-Ja05816 Jan 14, 2014	FC092 1.8-2.0 Soil S14-Ja05818 Jan 14, 2014	FC092 5.8-6.0 Soil S14-Ja05820 Jan 14, 2014	FC093 0.2-0.3 Soil S14-Ja05821 Jan 14, 2014
Organochlorine Pesticides						
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	-
Methoxychlor	0.2	mg/kg	< 0.2	-	-	-
Toxaphene	1	mg/kg	< 1	-	-	-
Dibutylchlorendate (surr.)	1	%	100	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	76	-	-	-
Polychlorinated Biphenyls (PCB)						
Aroclor-1016	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1232	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1242	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1248	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1254	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1260	0.5	mg/kg	< 0.5	-	-	-
Total PCB	0.5	mg/kg	< 0.5	-	-	-
Dibutylchlorendate (surr.)	1	%	100	-	-	-
Conductivity (1:5 aqueous extract at 25°C)	5	uS/cm	120	130	190	-
pH (1:5 Aqueous extract)	0.1	units	8.3	8.7	8.4	-
% Moisture	0.1	%	11	6.4	8.7	9.6
Heavy Metals						
Arsenic	2	mg/kg	6.9	4.2	< 2	5.8
Cadmium	0.4	mg/kg	0.6	0.7	0.4	1.1
Chromium	5	mg/kg	9.1	14	< 5	7.9
Copper	5	mg/kg	140	150	97	300
Lead	5	mg/kg	280	340	91	450
Mercury	0.05	mg/kg	0.63	0.70	0.36	0.16
Nickel	5	mg/kg	11	15	5.7	18
Zinc	5	mg/kg	360	310	230	380

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC093 0.8-1.0 Soil S14-Ja05822 Jan 14, 2014	FC093 5.9-6.1 Soil S14-Ja05825 Jan 14, 2014	QC12 Soil S14-Ja05827 Jan 14, 2014
Total Recoverable Hydrocarbons - 1999 NEPM Fractions					
TRH C6-C9	20	mg/kg	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	200	< 50
TRH C29-C36	50	mg/kg	< 50	190	< 50
TRH C10-36 (Total)	50	mg/kg	< 50	390	< 50
BTEX					
Benzene	0.1	mg/kg	< 0.1	-	< 0.1
Toluene	0.1	mg/kg	< 0.1	-	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1
Xylenes - Total	0.3	mg/kg	< 0.3	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	102	-	110

Client Sample ID			FC093 0.8-1.0	FC093 5.9-6.1	QC12
Sample Matrix			**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**S14-Ja05822**	**S14-Ja05825**	**S14-Ja05827**
Date Sampled			**Jan 14, 2014**	**Jan 14, 2014**	**Jan 14, 2014**
Test/Reference	LOR	Unit			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions					
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	360	< 100
TRH >C34-C40	100	mg/kg	< 100	170	< 100
Polycyclic Aromatic Hydrocarbons					
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	0.7	< 0.5
Anthracene	0.5	mg/kg	< 0.5	1.2	0.5
Benz(a)anthracene	0.5	mg/kg	0.6	4.4	1.2
Benzo(a)pyrene	0.5	mg/kg	0.7	6.3	1.7
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	0.7	7.2	1.9
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	4.5	1.0
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	3.1	0.8
Chrysene	0.5	mg/kg	0.6	4.9	1.2
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	0.9	< 0.5
Fluoranthene	0.5	mg/kg	1.1	7.4	2.2
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	3.4	0.8
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	2.7	1.4
Pyrene	0.5	mg/kg	1.0	7.3	2.1
Total PAH	0.5	mg/kg	4.7	54	15
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	0.9	9.2	2.2
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	1.2	9.2	2.4
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	1.5	9.2	2.7
2-Fluorobiphenyl (surr.)	1	%	90	88	86
p-Terphenyl-d14 (surr.)	1	%	100	98	97
Organochlorine Pesticides					
Chlordanes - Total	0.1	mg/kg	< 0.1	-	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	-	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	-	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	-	< 0.05
a-BHC	0.05	mg/kg	< 0.05	-	< 0.05
Aldrin	0.05	mg/kg	< 0.05	-	< 0.05
b-BHC	0.05	mg/kg	< 0.05	-	< 0.05
d-BHC	0.05	mg/kg	< 0.05	-	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	-	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	-	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	< 0.05
Endrin	0.05	mg/kg	< 0.05	-	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	-	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	< 0.05

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC093 0.8-1.0 Soil S14-Ja05822 Jan 14, 2014	FC093 5.9-6.1 Soil S14-Ja05825 Jan 14, 2014	QC12 Soil S14-Ja05827 Jan 14, 2014
Organochlorine Pesticides					
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	< 0.05
Methoxychlor	0.2	mg/kg	< 0.2	-	< 0.2
Toxaphene	1	mg/kg	< 1	-	< 1
Dibutylchlorendate (surr.)	1	%	96	-	90
Tetrachloro-m-xylene (surr.)	1	%	88	-	85
Polychlorinated Biphenyls (PCB)					
Aroclor-1016	0.5	mg/kg	< 0.5	-	< 0.5
Aroclor-1232	0.5	mg/kg	< 0.5	-	< 0.5
Aroclor-1242	0.5	mg/kg	< 0.5	-	< 0.5
Aroclor-1248	0.5	mg/kg	< 0.5	-	< 0.5
Aroclor-1254	0.5	mg/kg	< 0.5	-	< 0.5
Aroclor-1260	0.5	mg/kg	< 0.5	-	< 0.5
Total PCB	0.5	mg/kg	< 0.5	-	< 0.5
Dibutylchlorendate (surr.)	1	%	96	-	90
Conductivity (1:5 aqueous extract at 25°C)	5	uS/cm	290	180	-
pH (1:5 Aqueous extract)	0.1	units	8.3	8.2	-
% Moisture	0.1	%	7.1	10	13
Heavy Metals					
Arsenic	2	mg/kg	38	3.5	16
Cadmium	0.4	mg/kg	1.2	0.4	2.7
Chromium	5	mg/kg	17	< 5	19
Copper	5	mg/kg	700	120	770
Lead	5	mg/kg	1400	300	1700
Mercury	0.05	mg/kg	0.12	0.46	0.17
Nickel	5	mg/kg	130	7.5	58
Zinc	5	mg/kg	1700	300	2200

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Jan 17, 2014	14 Day
- Method: E004 Petroleum Hydrocarbons (TPH)			
BTEX	Sydney	Jan 16, 2014	14 Day
- Method: E029/E016 BTEX			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jan 17, 2014	14 Day
- Method: LM-LTM-ORG2010			
Polycyclic Aromatic Hydrocarbons	Sydney	Jan 17, 2014	14 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Organochlorine Pesticides	Sydney	Jan 17, 2014	14 Day
- Method: E013 Organochlorine Pesticides (OC)			
Polychlorinated Biphenyls (PCB)	Sydney	Jan 17, 2014	28 Day
- Method: E013 Polychlorinated Biphenyls (PCB)			
Metals M8	Sydney	Jan 16, 2014	28 Day
- Method: E022 Acid Extractable metals in Soils & E026 Mercury			
Conductivity (1:5 aqueous extract at 25°C)	Sydney	Jan 17, 2014	7 Day
- Method: E032.2 Electrical Conductivity (EC)			
pH (1:5 Aqueous extract)	Sydney	Jan 17, 2014	7 Day
- Method: E018.2 pH			
% Moisture	Sydney	Jan 16, 2014	28 Day
- Method: E005 Moisture Content			
Foreign Material - Type I	Sydney	Jan 16, 2014	180 Day
- Method: RTA Method T276			
Foreign Material - Type II	Sydney	Jan 16, 2014	180 Day
- Method: RTA Method T276			
Foreign Material - Type III	Sydney	Jan 16, 2014	180 Day
- Method: RTA Method T276			

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Company Name: JBS & G (NSW & WA) Pty Ltd
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Client Job No.: GREEN SQUARE DEVELOPMENT BLOCK 5B

Order No.:
Report #: 405724
Phone: 02 8245 0300
Fax:

Received: Jan 15, 2014 3:45 PM
Due: Jan 22, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	Total Recoverable Hydrocarbons	Foreign Materials - ENM	JBS&G Suite 2
Laboratory where analysis is conducted													
Melbourne Laboratory - NATA Site # 1254 & 14271													
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794													
External Laboratory													
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**									
FC008 0.2-0.3	Jan 14, 2014		Soil	S14-Ja05801			X						
FC008 0.8-1.0	Jan 14, 2014		Soil	S14-Ja05802	X	X		X	X	X	X		
FC008 1.8-2.0	Jan 14, 2014		Soil	S14-Ja05803			X						
FC008 3.8-4.0	Jan 14, 2014		Soil	S14-Ja05804	X	X		X				X	X
FC008 6.1-6.3	Jan 14, 2014		Soil	S14-Ja05805			X						
FC010 0.2-0.3	Jan 14, 2014		Soil	S14-Ja05806	X	X		X					X
FC010 0.8-1.0	Jan 14, 2014		Soil	S14-Ja05807			X						
FC010 1.8-2.0	Jan 14, 2014		Soil	S14-Ja05808	X	X		X	X	X	X		
FC010 2.8-3.0	Jan 14, 2014		Soil	S14-Ja05809			X						
FC010 5.8-6.0	Jan 14, 2014		Soil	S14-Ja05810	X	X		X					X

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NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

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Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	Total Recoverable Hydrocarbons	Foreign Materials - ENM	JBS&G Suite 2
Laboratory where analysis is conducted													
Melbourne Laboratory - NATA Site # 1254 & 14271													
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794													
External Laboratory													
FC011 0.2-0.3	Jan 14, 2014		Soil	S14-Ja05811	X	X		X	X	X	X		
FC011 0.8-1.0	Jan 14, 2014		Soil	S14-Ja05812	X	X		X	X	X	X		
FC011 1.8-2.0	Jan 14, 2014		Soil	S14-Ja05813			X						
FC011 3.8-4.0	Jan 14, 2014		Soil	S14-Ja05814	X	X		X					X
FC011 5.8-6.0	Jan 14, 2014		Soil	S14-Ja05815			X						
FC092 0.2-0.3	Jan 14, 2014		Soil	S14-Ja05816	X	X		X					X
FC092 0.8-1.0	Jan 14, 2014		Soil	S14-Ja05817			X						
FC092 1.8-2.0	Jan 14, 2014		Soil	S14-Ja05818	X	X		X	X	X	X		
FC092 3.8-4.0	Jan 14, 2014		Soil	S14-Ja05819			X						
FC092 5.8-6.0	Jan 14, 2014		Soil	S14-Ja05820	X	X		X	X	X	X		
FC093 0.2-0.3	Jan 14, 2014		Soil	S14-Ja05821	X				X	X	X		

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Client Job No.: GREEN SQUARE DEVELOPMENT BLOCK 5B

Order No.:
Report #: 405724
Phone: 02 8245 0300
Fax:

Received: Jan 15, 2014 3:45 PM
Due: Jan 22, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	Total Recoverable Hydrocarbons	Foreign Materials - ENM	JBS&G Suite 2
Laboratory where analysis is conducted													
Melbourne Laboratory - NATA Site # 1254 & 14271													
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794													
External Laboratory													
FC093 0.8-1.0	Jan 14, 2014		Soil	S14-Ja05822	X	X		X					X
FC093 1.8-2.0	Jan 14, 2014		Soil	S14-Ja05823			X						
FC093 3.9-4.1	Jan 14, 2014		Soil	S14-Ja05824			X						
FC093 5.9-6.1	Jan 14, 2014		Soil	S14-Ja05825	X	X		X	X	X	X		
QC11	Jan 14, 2014		Soil	S14-Ja05826			X						
QC12	Jan 14, 2014		Soil	S14-Ja05827	X								X

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH C6-C10 less BTEX (F1)	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-BHC	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-BHC	mg/kg	< 0.05			0.05	Pass	
d-BHC	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-BHC (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.2			0.2	Pass	
Toxaphene	mg/kg	< 1			1	Pass	
Method Blank							
Polychlorinated Biphenyls (PCB)							
Aroclor-1016	mg/kg	< 0.5			0.5	Pass	
Aroclor-1232	mg/kg	< 0.5			0.5	Pass	
Aroclor-1242	mg/kg	< 0.5			0.5	Pass	
Aroclor-1248	mg/kg	< 0.5			0.5	Pass	
Aroclor-1254	mg/kg	< 0.5			0.5	Pass	
Aroclor-1260	mg/kg	< 0.5			0.5	Pass	
Total PCB	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.05			0.05	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	108			70-130	Pass	
TRH C10-C14	%	80			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	115			70-130	Pass	
Toluene	%	108			70-130	Pass	
Ethylbenzene	%	107			70-130	Pass	
m&p-Xylenes	%	107			70-130	Pass	
o-Xylene	%	112			70-130	Pass	
Xylenes - Total	%	109			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	74			70-130	Pass	
TRH C6-C10	%	109			70-130	Pass	
TRH >C10-C16	%	86			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	122			70-130	Pass	
Acenaphthylene	%	125			70-130	Pass	
Anthracene	%	113			70-130	Pass	
Benz(a)anthracene	%	111			70-130	Pass	
Benzo(a)pyrene	%	115			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Benzo(b&j)fluoranthene	%	111			70-130	Pass	
Benzo(g.h.i)perylene	%	119			70-130	Pass	
Benzo(k)fluoranthene	%	123			70-130	Pass	
Chrysene	%	123			70-130	Pass	
Dibenz(a.h)anthracene	%	122			70-130	Pass	
Fluoranthene	%	117			70-130	Pass	
Fluorene	%	124			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	125			70-130	Pass	
Naphthalene	%	118			70-130	Pass	
Phenanthrene	%	117			70-130	Pass	
Pyrene	%	112			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	125			70-130	Pass	
4.4'-DDD	%	127			70-130	Pass	
4.4'-DDE	%	121			70-130	Pass	
4.4'-DDT	%	129			70-130	Pass	
a-BHC	%	123			70-130	Pass	
Aldrin	%	124			70-130	Pass	
b-BHC	%	128			70-130	Pass	
d-BHC	%	122			70-130	Pass	
Dieldrin	%	124			70-130	Pass	
Endosulfan I	%	125			70-130	Pass	
Endosulfan II	%	128			70-130	Pass	
Endosulfan sulphate	%	129			70-130	Pass	
Endrin	%	126			70-130	Pass	
Endrin aldehyde	%	125			70-130	Pass	
Endrin ketone	%	130			70-130	Pass	
g-BHC (Lindane)	%	125			70-130	Pass	
Heptachlor	%	120			70-130	Pass	
Heptachlor epoxide	%	125			70-130	Pass	
Hexachlorobenzene	%	101			70-130	Pass	
Methoxychlor	%	126			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls (PCB)							
Aroclor-1260	%	106			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	79			70-130	Pass	
Cadmium	%	77			70-130	Pass	
Chromium	%	82			70-130	Pass	
Copper	%	82			70-130	Pass	
Lead	%	82			70-130	Pass	
Mercury	%	111			70-130	Pass	
Nickel	%	86			70-130	Pass	
Zinc	%	89			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S14-Ja05802	CP	%	105			70-130	Pass	
TRH C10-C14	S14-Ja05802	CP	%	75			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S14-Ja05802	CP	%	113			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Toluene	S14-Ja05802	CP	%	105			70-130	Pass	
Ethylbenzene	S14-Ja05802	CP	%	105			70-130	Pass	
m&p-Xylenes	S14-Ja05802	CP	%	105			70-130	Pass	
o-Xylene	S14-Ja05802	CP	%	111			70-130	Pass	
Xylenes - Total	S14-Ja05802	CP	%	107			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S14-Ja05802	CP	%	71			70-130	Pass	
TRH C6-C10	S14-Ja05802	CP	%	106			70-130	Pass	
TRH >C10-C16	S14-Ja05802	CP	%	85			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S14-Ja05802	CP	%	108			70-130	Pass	
Acenaphthylene	S14-Ja05802	CP	%	105			70-130	Pass	
Anthracene	S14-Ja05802	CP	%	104			70-130	Pass	
Benz(a)anthracene	S14-Ja05802	CP	%	109			70-130	Pass	
Benzo(a)pyrene	S14-Ja05802	CP	%	117			70-130	Pass	
Benzo(b&j)fluoranthene	S14-Ja05802	CP	%	124			70-130	Pass	
Benzo(g.h.i)perylene	S14-Ja05802	CP	%	105			70-130	Pass	
Benzo(k)fluoranthene	S14-Ja05802	CP	%	92			70-130	Pass	
Chrysene	S14-Ja05802	CP	%	112			70-130	Pass	
Dibenz(a.h)anthracene	S14-Ja05802	CP	%	114			70-130	Pass	
Fluoranthene	S14-Ja05802	CP	%	114			70-130	Pass	
Fluorene	S14-Ja05802	CP	%	111			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja05802	CP	%	110			70-130	Pass	
Naphthalene	S14-Ja05802	CP	%	104			70-130	Pass	
Phenanthrene	S14-Ja05802	CP	%	105			70-130	Pass	
Pyrene	S14-Ja05802	CP	%	115			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S14-Ja05802	CP	%	72			70-130	Pass	
Cadmium	S14-Ja05802	CP	%	76			70-130	Pass	
Chromium	S14-Ja05802	CP	%	73			70-130	Pass	
Copper	S14-Ja05802	CP	%	91			70-130	Pass	
Lead	S14-Ja05802	CP	%	88			70-130	Pass	
Mercury	S14-Ja05802	CP	%	115			70-130	Pass	
Nickel	S14-Ja05802	CP	%	86			70-130	Pass	
Zinc	S14-Ja04828	NCP	%	121			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S14-Ja05820	CP	%	88			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S14-Ja05820	CP	%	107			70-130	Pass	
Toluene	S14-Ja05820	CP	%	100			70-130	Pass	
Ethylbenzene	S14-Ja05820	CP	%	98			70-130	Pass	
m&p-Xylenes	S14-Ja05820	CP	%	99			70-130	Pass	
o-Xylene	S14-Ja05820	CP	%	105			70-130	Pass	
Xylenes - Total	S14-Ja05820	CP	%	101			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S14-Ja05820	CP	%	73			70-130	Pass	
TRH C6-C10	S14-Ja05820	CP	%	91			70-130	Pass	
Spike - % Recovery									

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Heavy Metals				Result 1					
Arsenic	S14-Ja05820	CP	%	85			70-130	Pass	
Cadmium	S14-Ja05820	CP	%	79			70-130	Pass	
Chromium	S14-Ja05820	CP	%	88			70-130	Pass	
Copper	S14-Ja05820	CP	%	90			70-130	Pass	
Mercury	S14-Ja05820	CP	%	115			70-130	Pass	
Nickel	S14-Ja05820	CP	%	88			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S14-Ja05802	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S14-Ja05802	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S14-Ja05802	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S14-Ja05802	CP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S14-Ja05802	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S14-Ja05802	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S14-Ja05802	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S14-Ja05802	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S14-Ja05802	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total	S14-Ja05802	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S14-Ja05802	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S14-Ja05802	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S14-Ja05802	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S14-Ja05802	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S14-Ja05802	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S14-Ja05802	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S14-Ja05802	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S14-Ja05802	CP	mg/kg	< 0.5	0.5	21	30%	Pass	
Anthracene	S14-Ja05802	CP	mg/kg	< 0.5	0.6	22	30%	Pass	
Benz(a)anthracene	S14-Ja05802	CP	mg/kg	1.1	1.3	17	30%	Pass	
Benzo(a)pyrene	S14-Ja05802	CP	mg/kg	1.4	1.6	12	30%	Pass	
Benzo(b&j)fluoranthene	S14-Ja05802	CP	mg/kg	1.0	1.1	13	30%	Pass	
Benzo(g.h.i)perylene	S14-Ja05802	CP	mg/kg	1.1	1.2	7.0	30%	Pass	
Benzo(k)fluoranthene	S14-Ja05802	CP	mg/kg	1.5	1.4	4.0	30%	Pass	
Chrysene	S14-Ja05802	CP	mg/kg	1.0	1.3	20	30%	Pass	
Dibenz(a.h)anthracene	S14-Ja05802	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S14-Ja05802	CP	mg/kg	2.0	2.6	23	30%	Pass	
Fluorene	S14-Ja05802	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja05802	CP	mg/kg	0.9	1.0	10	30%	Pass	
Naphthalene	S14-Ja05802	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S14-Ja05802	CP	mg/kg	0.9	1.4	38	30%	Fail	Q15
Pyrene	S14-Ja05802	CP	mg/kg	2.0	2.5	22	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Conductivity (1:5 aqueous extract at 25°C)	S14-Ja05802	CP	uS/cm	110	110	<1	30%	Pass	

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S14-Ja05802	CP	mg/kg	2.4	3.0	21	30%	Pass	
Cadmium	S14-Ja05802	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S14-Ja05802	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	S14-Ja05802	CP	mg/kg	27	30	9.0	30%	Pass	
Lead	S14-Ja05802	CP	mg/kg	33	43	24	30%	Pass	
Mercury	S14-Ja05802	CP	mg/kg	0.34	0.39	13	30%	Pass	
Nickel	S14-Ja05802	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Zinc	S14-Ja05802	CP	mg/kg	79	76	4.0	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S14-Ja05804	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S14-Ja05804	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S14-Ja05804	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S14-Ja05804	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	S14-Ja05804	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S14-Ja05804	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	S14-Ja05804	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-BHC	S14-Ja05804	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S14-Ja05804	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S14-Ja05804	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S14-Ja05804	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S14-Ja05804	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S14-Ja05804	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S14-Ja05804	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S14-Ja05804	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	S14-Ja05804	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S14-Ja05804	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S14-Ja05804	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S14-Ja05804	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S14-Ja05804	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Toxaphene	S14-Ja05804	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls (PCB)				Result 1	Result 2	RPD			
Aroclor-1016	S14-Ja05804	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1232	S14-Ja05804	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1242	S14-Ja05804	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1248	S14-Ja05804	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1254	S14-Ja05804	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1260	S14-Ja05804	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S14-Ja05820	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S14-Ja05820	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S14-Ja05820	CP	mg/kg	240	300	21	30%	Pass	
TRH C29-C36	S14-Ja05820	CP	mg/kg	300	360	17	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S14-Ja05820	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S14-Ja05820	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S14-Ja05820	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S14-Ja05820	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S14-Ja05820	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total	S14-Ja05820	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	

Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S14-Ja05820	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S14-Ja05820	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S14-Ja05820	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S14-Ja05820	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S14-Ja05820	CP	mg/kg	480	590	20	30%	Pass	
TRH >C34-C40	S14-Ja05820	CP	mg/kg	280	350	21	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S14-Ja05820	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S14-Ja05820	CP	mg/kg	1.1	1.0	9.0	30%	Pass	
Anthracene	S14-Ja05820	CP	mg/kg	2.0	1.9	3.0	30%	Pass	
Benz(a)anthracene	S14-Ja05820	CP	mg/kg	6.5	7.4	13	30%	Pass	
Benzo(a)pyrene	S14-Ja05820	CP	mg/kg	11	11	7.0	30%	Pass	
Benzo(b&j)fluoranthene	S14-Ja05820	CP	mg/kg	11	10	8.0	30%	Pass	
Benzo(g.h.i)perylene	S14-Ja05820	CP	mg/kg	7.0	7.4	6.0	30%	Pass	
Benzo(k)fluoranthene	S14-Ja05820	CP	mg/kg	5.1	5.3	3.0	30%	Pass	
Chrysene	S14-Ja05820	CP	mg/kg	6.6	7.4	12	30%	Pass	
Dibenz(a.h)anthracene	S14-Ja05820	CP	mg/kg	1.5	1.6	4.0	30%	Pass	
Fluoranthene	S14-Ja05820	CP	mg/kg	11	12	9.0	30%	Pass	
Fluorene	S14-Ja05820	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja05820	CP	mg/kg	5.3	5.6	5.0	30%	Pass	
Naphthalene	S14-Ja05820	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S14-Ja05820	CP	mg/kg	4.3	3.9	10	30%	Pass	
Pyrene	S14-Ja05820	CP	mg/kg	10	12	13	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Conductivity (1:5 aqueous extract at 25°C)	S14-Ja05820	CP	uS/cm	190	190	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S14-Ja05820	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Cadmium	S14-Ja05820	CP	mg/kg	0.4	< 0.4	37	30%	Fail	Q15
Chromium	S14-Ja05820	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	S14-Ja05820	CP	mg/kg	97	89	10	30%	Pass	
Lead	S14-Ja05820	CP	mg/kg	91	120	29	30%	Pass	
Mercury	S14-Ja05820	CP	mg/kg	0.36	0.33	10	30%	Pass	
Nickel	S14-Ja05820	CP	mg/kg	5.7	< 5	13	30%	Pass	
Zinc	S14-Ja05820	CP	mg/kg	230	190	21	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q15	The RPD reported passes Eurofins | mgt's Acceptance Criteria as stipulated in SOP 05. Refer to Glossary Page of this report for further details

Authorised By

Jean Heng	Client Services
Bob Symons	Senior Analyst-Inorganic (NSW)
James Norford	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)
Ryan Hamilton	Senior Analyst-Volatile (NSW)

Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

Eurofins | mgt shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins | mgt be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

Parkview Building
Cove West

Page 1 of 2

#40524

CHAIN OF CUSTODY

J.: 43182
NAME: Green Square Development Block 5B
EPORT TO: N Cussen
SEND INVOICE TO:
DA NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: Chris
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: ncussen@jbsg.
QC LEVEL: NEPM (2013)

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	JB1	JB1T	JB1A	JB2	JB2A	B10	JB2/JBL	JB3/JBL	JB4	JBL	8 metals	TRH	PAH	pH	EC	CEC	VOCs	BTEX			NOTES:
FC008 0.2-0.3	soil	14.1.14		Jar + Ice																						
FC008 0.8-1.0																										
FC008 1.8-2.0																X	X	X	X	X						
FC008 3.8-4.0																										
FC008 6.1-6.3				+ 6 Kg Bag					X										X	X	X					
FC010 0.2-0.3																										
FC010 0.8-1.0								X											X	X						
FC010 1.8-2.0																										
FC010 2.8-3.0																X	X	X	X	X						
FC010 5.8-6.0																										
FC011 0.2-0.3								X											X	X						
FC011 0.8-1.0																X	X	X	X	X						
FC011 1.8-2.0																X	X	X	X	X						
FC011 3.8-4.0																										
FC011 5.8-6.0								X											X	X						
FC092 0.2-0.3																										
FC092 0.8-1.0								X											X	X						
FC092 1.8-2.0																										
FC092 3.8-4.0																X	X	X	X	X						

RELINQUISHED BY:
NAME: Nathan DATE: 14.1.14
OF: JBS&G
NAME: DATE:
OF:

METHOD OF SHIPMENT:
CONSIGNMENT NOTE NO.
TRANSPORT CO.
CONSIGNMENT NOTE NO.
TRANSPORT CO

RECEIVED BY:
NAME:
DATE:
OF:
NAME: DATE:
OF:

FOR RECEIVING LAB USE ONLY:
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO Forms013 – Chain of Custody – eurofins mgt

JB1 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1T - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos
JB2 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
B10 - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2/JBL - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)
JB3/JBL - TRH/BTEX/PAH/OCP/OPP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)/Asbestos
JB4 - TRH/BTEX/VOC
JBL - TCLP(PAH & 6 Metals)

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BY: Sam O. 3:45

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Unit F3-F6 Building F, Parkview Building
16 Mars Road, Lane Cove West
NSW 2066

Page 2 of 2

#405724

JBS&G

CHAIN OF CUSTODY

PROJECT NO.: 43182
PROJECT NAME: Green Square Development Block 50
SEND REPORT TO: SEND INVOICE TO:
DATE NEEDED BY:
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: Chris
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: nauston@jbsg.co
QC LEVEL: NEPM (2013)

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	JB1	JB1T	JB1A	JB2	JB2A	B10	JB2/JBL	JB3/JBL	JB4	JBL	8 Metals	TRH	PAH	EC	PH	NOTES:
Fc092 5.8-6.0	Soil	14.1.14		Jar + Ice												X	X	X	X	X	
Fc093 0.2-0.3																X	X	X			
Fc093 0.8-1.0									X										X	X	
Fc093 1.8-2.0																					
Fc093 3.9-4.1																					
Fc093 5.9-6.1																X	X	X	X	X	
QC11																					
QC12									X												
									X												

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Nathan DATE: 14 01 14	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE:	
		OF:	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - eurofins mgt

JB1 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1T - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos
JB2 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
B10 - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2/JBL - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)
JB3/JBL - TRH/BTEX/PAH/OCP/OPP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)/Asbestos
JB4 - TRH/BTEX/VOC
JBL - TCLP(PAH & 6 Metals)

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15 JAN 2014
BY: Sean O. 3:45

PICKFORD & RHYDER CONSULTING PTY LTD
ABN 17 105 546 076
Occupational Hygiene Measurements and Solutions.

PO Box 1422 Lane Cove 1595
Rear - 244 Burns Bay Road
Lane Cove NSW Australia
Phone: (02) 9418 9151
Fax: (02) 9418 9150

21 January 2014

N. Cussen
JBS&G (NSW & WA) Pty Ltd
Level 1
50 Margaret Street
SYDNEY NSW 2000

Email: ncussen@jbsg.com.au,

CERTIFICATE OF ANALYSIS – ASBESTOS IDENTIFICATION

YOUR REFERENCE/JOB No: 43182
TYPE OF SAMPLES: Bulk samples - as received from Envirolab Services
SITE LOCATION: Green Square, Block 5B
DATE SAMPLED: 16 January 2014 **DATE RECEIVED:** 20 January 2014
OUR REFERENCE: 77833/34-ID

TEST METHOD: Soil samples examined by Stereomicroscopy and Polarized Light Microscopy (with Dispersion Staining) in accordance with AS 4964-2004: - 'Method for the qualitative identification of asbestos in bulk samples' as outlined in Laboratory Method ID/1. The Reporting Limit for the results in this Certificate is numerically equal to the lowest detection limit of 0.1 g/kg. Trace asbestos analysis has been conducted on each sample, which is generally designed to detect 'respirable' asbestos fibres (ie less than 3 micrometres in width) distributed throughout the sample.

Sample No	*Lab No*	*Sample Information*	*Analysis Result*	*Description*
QC19-A	77833	Soil sample as received	No asbestos detected	The sample was a grey soil with stones, of total approximate weight 845 g, in which organic fibres were detected in the +2 mm and -2mm fraction. No asbestos fibres were detected in the +2 mm fraction. No asbestos fibres were detected in a representative sub-sample of the –2 mm fraction. No asbestos fibres were found at the Reporting Limit of 0.1g/kg.
QC20-A	77834	Soil sample as received	No asbestos detected	The sample was a grey soil with stones, of total approximate weight 700 g. No asbestos fibres were detected in the +2 mm fraction. No asbestos fibres were detected in a representative sub-sample of the –2 mm fraction. No asbestos fibres were found at the Reporting Limit of 0.1g/kg.

All sampling and site work has been undertaken by the client - the analytical procedures and results reported on this Certificate have been conducted by Pickford & Rhyder Consulting.

Sampling is not covered by the scope of accreditation.

Analysed and reported by:

Gary Conaty, Approved Identifier and Signatory.

NATA
ACCREDITED FOR TECHNICAL COMPETENCE

Accredited for compliance with ISO/IEC 17025. This document shall not be reproduced except in full.

Accreditation number 2515

Envirolab Services Pty Ltd
12 Ashley Street
Chatswood
NSW 2067

For P&R

103651

77832/34

Page 1 of 1

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square Block 5B
SEND REPORT TO: N Cussan SEND INVOICE TO: G Ng
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL: P&K

LABORATORY BATCH NO.:
SAMPLERS: T Creese
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: nussan@ejbj.com.au
QC LEVEL: NEPM (2013)

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	COMBO SUITES: SOIL - 4	SOIL – 4L	SOIL – 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER – 1m	WATER – 2L	WATER – 3L	Asbestos	NOTES:
QC19 – A	Soil	16.1.14		Bag												X	
QC20 – A	↓	↓		↓												X	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Nathan DATE: 17.01.14	CONSIGNMENT NOTE NO.	NAME: A.Webb	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 16/01/13	
		OF: ELS	COOLER TEMP ..... deg C
NAME: DATE: 20/1/14	CONSIGNMENT NOTE NO.	NAME: DATE: 20/1/14	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF: P&K 910	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Envirolab

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

PICKFORD & RHYDER CONSULTING PTY LTD
ABN 17 105 546 076
Occupational Hygiene Measurements and Solutions.

PO Box 1422 Lane Cove 1595
Rear - 244 Burns Bay Road
Lane Cove NSW Australia
Phone: (02) 9418 9151
Fax: (02) 9418 9150

20 January 2014

N. Cussen
JBS&G (NSW & WA) Pty Ltd
Level 1
50 Margaret Street
SYDNEY NSW 2000

Email: ncussen@jbsg.com.au,

CERTIFICATE OF ANALYSIS – ASBESTOS IDENTIFICATION

YOUR REFERENCE/JOB No: 43182
TYPE OF SAMPLES: Bulk samples - as received from Envirolab Services
SITE LOCATION: Green Square, Block 5B
DATE SAMPLED: 14 January 2014 **DATE RECEIVED:** 16 January 2014
OUR REFERENCE: 77805/06-ID

TEST METHOD: Soil samples examined by Stereomicroscopy and Polarized Light Microscopy (with Dispersion Staining) in accordance with AS 4964-2004: - 'Method for the qualitative identification of asbestos in bulk samples' as outlined in Laboratory Method ID/1. The Reporting Limit for the results in this Certificate is numerically equal to the lowest detection limit of 0.1 g/kg. Trace asbestos analysis has been conducted on each sample, which is generally designed to detect 'respirable' asbestos fibres (ie less than 3 micrometres in width) distributed throughout the sample.

Sample No	*Lab No*	*Sample Information*	*Analysis Result*	*Description*
QC11-A	77805	Soil sample as received	No asbestos detected	The sample was a brown soil with plant matter, of total approximate weight 898 g, in which organic fibres were detected in the -2mm fraction. No asbestos fibres were detected in the +2 mm fraction. No asbestos fibres were detected in a representative sub-sample of the –2 mm fraction. No asbestos fibres were found at the Reporting Limit of 0.1g/kg.

Analysed and reported by:

L. Apthorpe,
Approved Identifier and Signatory.

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Accreditation number 2515

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Sample No	*Lab No*	*Sample Information*	*Analysis Result*	*Description*
QC12-A	77806	Soil sample as received	No asbestos detected	The sample was a brown soil with stones, plant matter, glass and metal of total approximate weight 705 g, in which organic fibres were detected in the -2mm fraction. No asbestos fibres were detected in the +2 mm fraction. No asbestos fibres were detected in a representative sub-sample of the –2 mm fraction. No asbestos fibres were found at the Reporting Limit of 0.1g/kg.

All sampling and site work has been undertaken by the client - the analytical procedures and results reported on this Certificate have been conducted by Pickford & Rhyder Consulting.

Sampling is not covered by the scope of accreditation.

Envirolab Services Pty Ltd
12 Ashley Street
Chatswood
NSW 2067

For P&R

Page 1 of 1

77805-6

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 43182	LABORATORY BATCH NO.:
PROJECT NAME: Green Square Block 5B	SAMPLERS: Chris
SEND REPORT TO: SEND INVOICE TO:	PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: rcrowe@jbsg.com.au
DATE NEEDED BY:	QC LEVEL: NEPM (2013)
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL: P&R	

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	COMBO SUITES: SOIL - 4	SOIL – 4L	SOIL – 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER – 1m	WATER – 2L	WATER – 3L	Asbestos	NOTES:
QC11 – A	soil	14-1-14		Bag												X	
QC12 – A	soil	14-1-14		Bag												X	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Nathan DATE: 14-01-14 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C
NAME: DATE: 16/1/14 OF:	CONSIGNMENT NOTE NO. TRANSPORT CO	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Envirolab

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

JM
16/1/14
9:30

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

CERTIFICATE OF ANALYSIS 103665

Client:
JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention: Nathan Cussen

Sample log in details:

Your Reference:	**43182, Green Square**		
No. of samples:	2 soils		
Date samples received / completed instructions received	17/01/14	/	17/01/14

Analysis Details:
Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by: / Issue Date:	24/01/14	/	22/01/14
Date of Preliminary Report:	Not issued		

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Accredited for compliance with ISO/IEC 17025. **Tests not covered by NATA are denoted with *.**

Results Approved By:

Jacinta Hurst
Laboratory Manager

ACCREDITED FOR TECHNICAL COMPETENCE

vTRH(C6-C10)/BTEXN in Soil			
Our Reference:	UNITS	103665-1	103665-2
Your Reference	----------	QC19-A	QC20-A
Date Sampled	----------	16/01/2014	16/01/2014
Type of sample		soil	soil
Date extracted	-	20/01/2014	20/01/2014
Date analysed	-	22/01/2014	22/01/2014
TRHC$_6$ - C$_9$	mg/kg	<25	<25
TRHC$_6$ - C$_{10}$	mg/kg	<25	<25
vTPHC$_6$ - C$_{10}$ less BTEX (F1)	mg/kg	<25	<25
Benzene	mg/kg	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1
m+p-xylene	mg/kg	<2	<2
o-Xylene	mg/kg	<1	<1
naphthalene	mg/kg	<1	<1
Surrogate aaa-Trifluorotoluene	%	90	90

svTRH (C10-C40) in Soil			
Our Reference:	UNITS	103665-1	103665-2
Your Reference	----------	QC19-A	QC20-A
Date Sampled	----------	16/01/2014	16/01/2014
Type of sample		soil	soil
Date extracted	-	20/01/2014	20/01/2014
Date analysed	-	22/01/2014	22/01/2014
TRHC$_{10}$ - C$_{14}$	mg/kg	<50	<50
TRHC$_{15}$ - C$_{28}$	mg/kg	140	<100
TRHC$_{29}$ - C$_{36}$	mg/kg	170	<100
TRH>C$_{10}$-C$_{16}$	mg/kg	<50	<50
TRH>C$_{10}$ - C$_{16}$ less Naphthalene (F2)	mg/kg	<50	<50
TRH>C$_{16}$-C$_{34}$	mg/kg	280	<100
TRH>C$_{34}$-C$_{40}$	mg/kg	<100	<100
Surrogate o-Terphenyl	%	94	93

PAHs in Soil			
Our Reference:	UNITS	103665-1	103665-2
Your Reference	----------	QC19-A	QC20-A
Date Sampled	----------	16/01/2014	16/01/2014
Type of sample		soil	soil
Date extracted	-	20/01/2014	20/01/2014
Date analysed	-	22/01/2014	22/01/2014
Naphthalene	mg/kg	0.2	<0.1
Acenaphthylene	mg/kg	0.4	<0.1
Acenaphthene	mg/kg	0.1	<0.1
Fluorene	mg/kg	0.2	0.1
Phenanthrene	mg/kg	2.5	0.8
Anthracene	mg/kg	0.7	0.2
Fluoranthene	mg/kg	6.0	1.3
Pyrene	mg/kg	6.2	1.4
Benzo(a)anthracene	mg/kg	3.5	0.6
Chrysene	mg/kg	3.2	0.6
Benzo(b+k)fluoranthene	mg/kg	6.7	1.1
Benzo(a)pyrene	mg/kg	4.5	0.74
Indeno(1,2,3-c,d)pyrene	mg/kg	2.8	0.4
Dibenzo(a,h)anthracene	mg/kg	0.6	<0.1
Benzo(g,h,i)perylene	mg/kg	2.7	0.4
Benzo(a)pyrene TEQ NEPM B1	mg/kg	6.0	1
Total +ve PAH's	mg/kg	40	7.8
Surrogate p-Terphenyl-d14	%	122	122

Organochlorine Pesticides in soil			
Our Reference:	UNITS	103665-1	103665-2
Your Reference	----------	QC19-A	QC20-A
Date Sampled	----------	16/01/2014	16/01/2014
Type of sample		soil	soil
Date extracted	-	20/01/2014	20/01/2014
Date analysed	-	22/01/2014	22/01/2014
HCB	mg/kg	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1
Surrogate TCMX	%	88	87

PCBs in Soil			
Our Reference:	UNITS	103665-1	103665-2
Your Reference	----------	QC19-A	QC20-A
Date Sampled	----------	16/01/2014	16/01/2014
Type of sample		soil	soil
Date extracted	-	20/01/2014	20/01/2014
Date analysed	-	22/01/2014	22/01/2014
Arochlor 1016	mg/kg	<0.1	<0.1
Arochlor 1221	mg/kg	<0.1	<0.1
Arochlor 1232	mg/kg	<0.1	<0.1
Arochlor 1242	mg/kg	<0.1	<0.1
Arochlor 1248	mg/kg	<0.1	<0.1
Arochlor 1254	mg/kg	<0.1	<0.1
Arochlor 1260	mg/kg	<0.1	<0.1
Surrogate TCLMX	%	88	87

Acid Extractable metals in soil			
Our Reference:	UNITS	103665-1	103665-2
Your Reference	----------	QC19-A	QC20-A
Date Sampled	----------	16/01/2014	16/01/2014
Type of sample		soil	soil
Date digested	-	20/01/2014	20/01/2014
Date analysed	-	20/01/2014	20/01/2014
Arsenic	mg/kg	9	5
Cadmium	mg/kg	0.5	<0.4
Chromium	mg/kg	28	13
Copper	mg/kg	260	35
Lead	mg/kg	710	98
Mercury	mg/kg	0.3	0.2
Nickel	mg/kg	18	7
Zinc	mg/kg	500	41

Moisture			
Our Reference:	UNITS	103665-1	103665-2
Your Reference	----------	QC19-A	QC20-A
Date Sampled	----------	16/01/2014	16/01/2014
Type of sample		soil	soil
Date prepared	-	20/01/2014	20/01/2014
Date analysed	-	21/01/2014	21/01/2014
Moisture	%	8.9	9.3

Method ID	Methodology Summary
Org-016	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-014	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-003	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note Naphthalene is determined from the VOC analysis.
Org-012 subset	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.
Org-005	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.
Org-006	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.
Metals-020 ICP-AES	Determination of various metals by ICP-AES.
Metals-021 CV-AAS	Determination of Mercury by Cold Vapour AAS.
Inorg-008	Moisture content determined by heating at 105+/-5 deg C for a minimum of 12 hours.

QUALITY CONTROL vTRH(C6-C10)/BTEXN in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			20/01/2014	[NT]	[NT]	LCS-7	20/01/2014
Date analysed	-			22/01/2014	[NT]	[NT]	LCS-7	22/01/2014
TRHC6 - C9	mg/kg	25	Org-016	<25	[NT]	[NT]	LCS-7	79%
TRHC6 - C10	mg/kg	25	Org-016	<25	[NT]	[NT]	LCS-7	79%
Benzene	mg/kg	0.2	Org-016	<0.2	[NT]	[NT]	LCS-7	76%
Toluene	mg/kg	0.5	Org-016	<0.5	[NT]	[NT]	LCS-7	62%
Ethylbenzene	mg/kg	1	Org-016	<1	[NT]	[NT]	LCS-7	80%
m+p-xylene	mg/kg	2	Org-016	<2	[NT]	[NT]	LCS-7	88%
o-Xylene	mg/kg	1	Org-016	<1	[NT]	[NT]	LCS-7	87%
naphthalene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
Surrogate aaa-Trifluorotoluene	%		Org-016	109	[NT]	[NT]	LCS-7	94%
QUALITY CONTROL svTRH (C10-C40) in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			20/01/2014	[NT]	[NT]	LCS-7	20/01/2014
Date analysed	-			22/01/2014	[NT]	[NT]	LCS-7	22/01/2014
TRHC10 - C14	mg/kg	50	Org-003	<50	[NT]	[NT]	LCS-7	127%
TRHC15 - C28	mg/kg	100	Org-003	<100	[NT]	[NT]	LCS-7	106%
TRHC29 - C36	mg/kg	100	Org-003	<100	[NT]	[NT]	LCS-7	96%
TRH>C10-C16	mg/kg	50	Org-003	<50	[NT]	[NT]	LCS-7	127%
TRH>C16-C34	mg/kg	100	Org-003	<100	[NT]	[NT]	LCS-7	106%
TRH>C34-C40	mg/kg	100	Org-003	<100	[NT]	[NT]	LCS-7	96%
Surrogate o-Terphenyl	%		Org-003	90	[NT]	[NT]	LCS-7	104%
QUALITY CONTROL PAHs in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			20/01/2014	[NT]	[NT]	LCS-7	20/01/2014
Date analysed	-			22/01/2014	[NT]	[NT]	LCS-7	22/01/2014
Naphthalene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-7	102%
Acenaphthylene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Acenaphthene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Fluorene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-7	107%
Phenanthrene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-7	106%
Anthracene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Fluoranthene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-7	105%

QUALITY CONTROL PAHs in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base II Duplicate II %RPD	Spike Sm#	Spike % Recovery
Pyrene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-7	111%
Benzo(a)anthracene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Chrysene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-7	98%
Benzo(b+k)fluoranthene	mg/kg	0.2	Org-012 subset	<0.2	[NT]	[NT]	[NR]	[NR]
Benzo(a)pyrene	mg/kg	0.05	Org-012 subset	<0.05	[NT]	[NT]	LCS-7	112%
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Surrogate p-Terphenyl-d14	%		Org-012 subset	120	[NT]	[NT]	LCS-7	114%
QUALITY CONTROL Organochlorine Pesticides in soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base II Duplicate II %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			20/01/2014	[NT]	[NT]	LCS-7	20/01/2014
Date analysed	-			22/01/2014	[NT]	[NT]	LCS-7	22/01/2014
HCB	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
alpha-BHC	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-7	119%
gamma-BHC	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
beta-BHC	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-7	79%
Heptachlor	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-7	86%
delta-BHC	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
Aldrin	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-7	89%
Heptachlor Epoxide	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-7	105%
gamma-Chlordane	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
alpha-chlordane	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
Endosulfan I	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
pp-DDE	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-7	82%
Dieldrin	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-7	78%
Endrin	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-7	80%
pp-DDD	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-7	88%
Endosulfan II	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
pp-DDT	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
Endrin Aldehyde	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
Endosulfan Sulphate	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-7	94%
Methoxychlor	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
Surrogate TCMX	%		Org-005	89	[NT]	[NT]	LCS-7	90%

Client Reference: 43182, Green Square

QUALITY CONTROL PCBs in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			20/01/2014	[NT]	[NT]	LCS-7	20/01/2014
Date analysed	-			22/01/2014	[NT]	[NT]	LCS-7	22/01/2014
Arochlor 1016	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1221	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1232	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1242	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1248	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1254	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	LCS-7	102%
Arochlor 1260	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Surrogate TCLMX	%		Org-006	89	[NT]	[NT]	LCS-7	91%

QUALITY CONTROL Acid Extractable metals in soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date digested	-			20/01/2014	[NT]	[NT]	LCS-11	20/01/2014
Date analysed	-			20/01/2014	[NT]	[NT]	LCS-11	20/01/2014
Arsenic	mg/kg	4	Metals-020 ICP-AES	<4	[NT]	[NT]	LCS-11	92%
Cadmium	mg/kg	0.4	Metals-020 ICP-AES	<0.4	[NT]	[NT]	LCS-11	102%
Chromium	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-11	103%
Copper	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-11	100%
Lead	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-11	99%
Mercury	mg/kg	0.1	Metals-021 CV-AAS	<0.1	[NT]	[NT]	LCS-11	100%
Nickel	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-11	100%
Zinc	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-11	102%

QUALITY CONTROL Moisture	UNITS	PQL	METHOD	Blank
Date prepared	-			[NT]
Date analysed	-			[NT]
Moisture	%	0.1	Inorg-008	[NT]

Report Comments:

Asbestos ID was analysed by Approved Identifier:	Not applicable for this job
Asbestos ID was authorised by Approved Signatory:	Not applicable for this job

INS: Insufficient sample for this test	PQL: Practical Quantitation Limit	NT: Not tested
NA: Test not required	RPD: Relative Percent Difference	NA: Test not required
<: Less than	>: Greater than	LCS: Laboratory Control Sample

Quality Control Definitions

Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

Duplicate: This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

Matrix Spike : A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

LCS (Laboratory Control Sample) : This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Surrogate Spike: Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.
Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.
Spikes for Physical and Aggregate Tests are not applicable.
For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.
Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for SVOC and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Envirolab Services Pty Ltd
12 Ashley Street
Chatswood
NSW 2067

Page 1 of 1

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square
SEND REPORT TO: N Nissan SEND INVOICE TO: C Ng
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: T Creese
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: nnissan@jbsg.com.au
QC LEVEL: NEPM (2013)

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	COMBO SUITES: SOIL - 4	SOIL – 4L	SOIL – 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER – 1m	WATER – 2L	WATER – 3L	NOTES:
1	QC19-A	Soil	16.1.14		Jar + Ice					X							
2	QC20-A	↓			Jar + Ice					X							

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 103665
Date Received: 17/1/14
Time Received: 14:00
Received by: PT
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Nchin DATE: 17-01-14 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: PT DATE: 17/1/13 OF: EVS	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C
NAME: DATE: OF:	CONSIGNMENT NOTE NO. TRANSPORT CO	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Envirolab

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

SAMPLE RECEIPT ADVICE

Client:

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney NSW 2000

ph: 02 8245 0300
Fax: 02 8245 0399

Attention: Nathan Cussen

Sample log in details:

Your reference:	**43182, Green Square Block 5B**
Envirolab Reference:	**103651**
Date received:	17/01/14
Date results expected to be reported:	**24/01/14**

Samples received in appropriate condition for analysis:	YES
No. of samples provided	39 Soils
Turnaround time requested:	Standard
Temperature on receipt (°C)	NA
Cooling Method:	None
Sampling Date Provided:	YES

Comments:

Samples will be held for 1 month for water samples and 2 months for soil samples from date of receipt of samples.

Contact details:

Please direct any queries to Aileen Hie or Jacinta Hurst
ph: 02 9910 6200 fax: 02 9910 6201
email: ahie@envirolabservices.com.au or jhurst@envirolabservices.com.au

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

CERTIFICATE OF ANALYSIS 103651

Client:
JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention: Nathan Cussen

Sample log in details:

Your Reference:	**43182, Green Square Block 5B**
No. of samples:	39 Soils
Date samples received / completed instructions received	17/01/14 / 17/01/14

Analysis Details:
Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by: / Issue Date:	24/01/14 / 24/01/14
Date of Preliminary Report:	Not Issued

NATA accreditation number 2901. This document shall not be reproduced except in full.
Accredited for compliance with ISO/IEC 17025. **Tests not covered by NATA are denoted with *.**

Results Approved By:

Jacinta Hurst
Laboratory Manager

Asbestos ID - soils WA						
Our Reference:	UNITS	103651-2	103651-4	103651-7	103651-10	103651-13
Your Reference	----------	FC007	FC007	FC007	FC012	FC012
Depth	----------	0.5	2.0	5.5	0.5	3.0
Date Sampled		16/01/2014	16/01/2014	16/01/2014	16/01/2014	16/01/2014
Type of sample		soil	soil	soil	soil	soil
Date analysed	-	24/01/2014	24/01/2014	24/01/2014	24/01/2014	24/01/2014
Sample mass tested	g	763.47g	749.19g	646.48g	826.01g	953.38g
Sample Description	-	Dark grey coarse-grained soil & rocks	Grey fine-grained soil	Light brown coarse-grained soil	Brown fine-grained soil	Brown fine-grained soil
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	Chrysotile asbestos detected	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected

Asbestos ID - soils WA						
Our Reference:	UNITS	103651-14	103651-16	103651-20	103651-22	103651-24
Your Reference	----------	FC012	FC013	FC013	FC013	FC014
Depth	----------	4.0	0.0	4.0	6.5	1.0
Date Sampled		16/01/2014	16/01/2014	16/01/2014	16/01/2014	16/01/2014
Type of sample		soil	soil	soil	soil	soil
Date analysed	-	24/01/2014	24/01/2014	24/01/2014	24/01/2014	24/01/2014
Sample mass tested	g	889.34g	829.94g	741.28g	677.36g	960.28g
Sample Description	-	Pink-brown fine-grained soil	Dark brown coarse-grained soil	Dark brown fine-grained soil & rocks	Dark brown fine-grained soil	Dark brown-grey fine-grained soil
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	Chrysotile asbestos detected	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected

Asbestos ID - soils WA						
Our Reference:	UNITS	103651-25	103651-28	103651-30	103651-32	103651-35
Your Reference	----------	FC014	FC014	FC091	FC091	FC091
Depth	----------	2.0	5.0	0.0	1.0	4.0
Date Sampled		16/01/2014	16/01/2014	16/01/2014	16/01/2014	16/01/2014
Type of sample		soil	soil	soil	soil	soil
Date analysed	-	24/01/2014	24/01/2014	24/01/2014	24/01/2014	24/01/2014
Sample mass tested	g	625.09g	796.80g	880.99g	954.69g	828.64g
Sample Description	-	Grey-brown coarse-grained soil	Brown fine-grained soil	Grey coarse-grained soil & rocks	Grey fine-grained sandy soil	Grey coarse-grained soil
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected

Asbestos ID - soils WA			
Our Reference:	UNITS	103651-38	103651-39
Your Reference	----------	QC19	QC20
Depth	----------	-	-
Date Sampled		16/01/2014	16/01/2014
Type of sample		soil	soil
Date analysed	-	24/01/2014	24/01/2014
Sample mass tested	g	827.61g	749.66g
Sample Description	-	Grey coarse-grained soil	Grey coarse-grained sandy soil
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected	No respirable fibres detected

Method ID	Methodology Summary
ASB-003	Asbestos ID - Minimum 500mL soil sample was analysed as recommended by "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.1g/kg as per AS4964-2004.

Report Comments:

This report is consistent with the analytical procedures and reporting recommendations in the Western Australian Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009.

Sample 103651-10; Chrysotile asbestos identified embedded in several fragments of fibre cement, and as loose fibre bundles within the sample (total weight 1.1070g). It is estimated that this contains up to 40% asbestos fibres by weight. This calculates to 0.4428g of asbestos fibres, which in 826.01g of soil is 0.54g/kg (i.e. > reporting limit for the method of 0.1g/kg).

Sample 103651-20; Chrysotile asbestos identified embedded in al fragment of fibre cement (total weight 3.2432g). It is estimated that the fibre cement contains up to 15% asbestos fibres by weight. This calculates to 0.4865g of asbestos fibres, which in 741.28g of soil is 0.66g/kg (i.e. > reporting limit for the method of 0.1g/kg).

Asbestos ID was analysed by Approved Identifier:	Alex Tam
Asbestos ID was authorised by Approved Signatory:	Paul Ching

INS: Insufficient sample for this test	PQL: Practical Quantitation Limit	NT: Not tested
NA: Test not required	RPD: Relative Percent Difference	NA: Test not required
<: Less than	>: Greater than	LCS: Laboratory Control Sample

Quality Control Definitions

Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

Duplicate: This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

Matrix Spike : A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

LCS (Laboratory Control Sample) : This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Surrogate Spike: Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.
Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.
Spikes for Physical and Aggregate Tests are not applicable.
For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.
Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for SVOC and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as

12 Ashley Street
Chatswood
NSW 2067

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 47182
PROJECT NAME: Green Square Block 5B
SEND REPORT TO: N Weir SEND INVOICE TO: G Ng
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: T Crase
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: nweir@jbsg.com.au
QC LEVEL: NEPM (2013)

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	COMBO SUITES: SOIL - 4	SOIL - 4L	SOIL - 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER - 1m	WATER - 2L	WATER - 3L	Asbestos	NOTES:
1	FC007 0.0	Soil	16.1.14		Bag												x	
2	FC007 0.5																	
3	FC007 1.0																x	
4	FC007 2.0																	
5	FC007 3.0																x	
6	FC007 4.0																	
7	FC007 5.5																	
8	FC007 6.5																x	
9	FC012 0.0																	
10	FC012 0.5																	
11	FC012 1.0																x	
12	FC012 2.0																	
13	FC012 3.0																	
14	FC012 4.0																x	
15	FC012 5.5																x	
16	FC013 0.0																	
17	FC013 1.0																x	
18	FC013 2.0																	

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200
Job No: 103651
Date Received: 16/01/13
Time Received: 17:45
Received by: AW
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: N Weir DATE: 17.1.14	CONSIGNMENT NOTE NO.	NAME: A. Weir	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 16/01/13	
NAME: DATE:	CONSIGNMENT NOTE NO.	OF: EVS	COOLER TEMP ..... deg C
OF:	TRANSPORT CO	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
		OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Envirolab

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

12 Ashley Street
Chatswood
NSW 2067

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square Block 5B
SEND REPORT TO: N Wilson SEND INVOICE TO: C NJ
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: T Crause
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: nwilson@jbsg.com.a
QC LEVEL: NEPM (2013)

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	COMBO SUITES: SOIL - 4	SOIL – 4L	SOIL – 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER – 1m	WATER – 2L	WATER – 3L	Asbestos	NOTES:
19	FC013 3.0	Soil	16.1.14		Bag											X		
20	FC013 4.0																	
21	FC013 5.0															X		
22	FC013 6.5																	
23	FC014 0.0															X		
24	FC014 1.0																	
25	FC014 2.0															X		
26	FC014 3.0															X		
27	FC014 4.0																	
28	FC014 5.0																	
29	FC014 6.5															X		
30	FC011 0.0																	
31	FC011 0.5															X		
32	FC011 1.0																	
33	FC011 2.0															X		
34	FC011 3.0																	
35	FC011 4.0																	
36	FC011 5.5															X		

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Nathan DATE: 17.01.14	CONSIGNMENT NOTE NO.	NAME: A Weir	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 6/01/14	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	OF: ELS	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	NAME: DATE:	COOLER TEMP ..... deg C
		OF:	

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Envirolab

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/}/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

Envirolab Services Pty Ltd
12 Ashley Street
Chatswood
NSW 2067

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square Block 5B
SEND REPORT TO: N Cussen SEND INVOICE TO: E NJ
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: T Crease
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: ncussen@jbsg.com.au
QC LEVEL: NEPM (2013)

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	COMBO SUITES: SOIL - 4	SOIL – 4L	SOIL – 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER – 1m	WATER – 2L	WATER – 3L	Asbestos	NOTES:
37-	FC091 0.5	Soil	16.1.14		Bag													
38-	QC19	↓	↓		↓												X	
39-	QC20																X	
	QC19-A																Please send to Pat	
	QC20-A																Please send to Pat	

RELINQUISHED BY:
NAME: N.Cha DATE: 17 01 14
OF: JBS&G
NAME: DATE:
OF:

METHOD OF SHIPMENT:
CONSIGNMENT NOTE NO.
TRANSPORT CO.
CONSIGNMENT NOTE NO.
TRANSPORT CO

RECEIVED BY:
NAME: A.Wer
DATE: 16/01/13
OF: ELS
NAME: DATE:
OF:

FOR RECEIVING LAB USE ONLY:
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Envirolab

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

SAMPLE RECEIPT ADVICE

Client:

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney NSW 2000

ph: 02 8245 0300
Fax: 02 8245 0399

Attention: Nathan Cussen

Sample log in details:

Your reference:	**43182, Green Square Block 5B**
Envirolab Reference:	**103553**
Date received:	15/01/14
Date results expected to be reported:	**22/01/14**

Samples received in appropriate condition for analysis:	YES
No. of samples provided	26 Soils
Turnaround time requested:	Standard
Temperature on receipt (°C)	NA
Cooling Method:	None
Sampling Date Provided:	YES

Comments:

Samples will be held for 1 month for water samples and 2 months for soil samples from date of receipt of samples.

Contact details:

Please direct any queries to Aileen Hie or Jacinta Hurst
ph: 02 9910 6200 fax: 02 9910 6201
email: ahie@envirolabservices.com.au or jhurst@envirolabservices.com.au

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

CERTIFICATE OF ANALYSIS 103553

Client:

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention: Nathan Cussen

Sample log in details:

Your Reference:	**43182, Green Square Block 5B**		
No. of samples:	26 Soils		
Date samples received / completed instructions received	15/01/14	/	15/01/14

Analysis Details:

Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by: / Issue Date:	22/01/14	/	22/01/14
Date of Preliminary Report:	Not Issued		

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Accredited for compliance with ISO/IEC 17025. **Tests not covered by NATA are denoted with *.**

Results Approved By:

Jacinta Hurst
Laboratory Manager

Asbestos ID - soils WA						
Our Reference:	UNITS	103553-2	103553-4	103553-6	103553-8	103553-10
Your Reference	----------	FC008	FC008	FC010	FC010	FC011
Depth	----------	0.8-1.0	3.8-4.0	0.2-0.3	1.8-2.0	0.2-0.3
Date Sampled		14/01/2014	14/01/2014	14/01/2014	14/01/2014	14/01/2014
Type of sample		soil	soil	soil	soil	soil
Date analysed	-	22/01/2014	22/01/2014	22/01/2014	22/01/2014	22/01/2014
Sample mass tested	g	1033.73g	1031.78g	981.32g	885.57g	945.08g
Sample Description	-	Brown coarse-grained soil & rocks	Beige coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	Chrysotile asbestos detected	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected

Asbestos ID - soils WA						
Our Reference:	UNITS	103553-11	103553-13	103553-15	103553-17	103553-19
Your Reference	----------	FC011	FC011	FC092	FC092	FC092
Depth	----------	0.8-1.0	2.8-4.0	0.2-0.3	1.8-2.0	5.8-6.0
Date Sampled		14/01/2014	14/01/2014	14/01/2014	14/01/2014	14/01/2014
Type of sample		soil	soil	soil	soil	soil
Date analysed	-	22/01/2014	22/01/2014	22/01/2014	22/01/2014	22/01/2014
Sample mass tested	g	823.18g	862.63g	903.16g	863.63g	868.84g
Sample Description	-	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected

Asbestos ID - soils WA						
Our Reference:	UNITS	103553-20	103553-21	103553-24	103553-25	103553-26
Your Reference	----------	FC093	FC093	FC093	QC11	QC12
Depth	----------	0.2-0.3	0.8-1.0	5.9-6.1	-	-
Date Sampled		14/01/2014	14/01/2014	14/01/2014	14/01/2014	14/01/2014
Type of sample		soil	soil	soil	soil	soil
Date analysed	-	22/01/2014	22/01/2014	22/01/2014	22/01/2014	22/01/2014
Sample mass tested	g	1045.29g	725.01g	940.73g	954.08g	688.99g
Sample Description	-	Grey fine-grained soil & rocks	Grey fine-grained soil & rocks	Brown coarse-grained soil & rocks	Grey fine-grained soil & rocks	Grey fine-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected

Method ID	Methodology Summary
ASB-003	Asbestos ID - Minimum 500mL soil sample was analysed as recommended by "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.1g/kg as per AS4964-2004.

Report Comments:

This report is consistent with the analytical procedures and reporting recommendations in the Western Australian Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009.

Sample 103553-2; Loose fibre bundles of Chrysolite asbestos identified within the sample (total weight 0.0010g). This is 100% asbestos fibres by weight within the sample (total weight 1033.73g), which is calculated as less than the reporting limit for the method (i.e. < 0.1g/kg).

Sample 103553-6; Chrysotile asbestos identified embedded in a fragment of fibre cement (total weight 1.8361g). It is estimated that the fibre cement contains up to 15% asbestos fibres by weight. This calculates to 0.2754g of asbestos fibres, which in 981.32g of soil is 0.28g/kg (i.e. > reporting limit for the method of 0.1g/kg).

Sample 103553-10; Loose fibre bundles of Chrysotile asbestos identified within the sample (total weight 0.0021g), This is 100% asbestos fibres by weight, within the sample (total weight 945.08g), which is calculated as less than the reporting limit for the method (i.e. < 0.1g/kg).

Sample 103553-11; Chrysotile asbestos identified in matted material (total weight 0.0017g). It is estimated that the matted material contains up to 75%, asbestos fibres by weight. This calculates to 0.0013g of asbestos fibres, which within the sample (total weight 823.18g), which is calculated as less than the reporting limit for the method (i.e. < 0.1g/kg).

Sample 103553-13; Loose fibre bundles of Chrysotile asbestos identified within the sample (total weight 0.0026g). This is 100% asbestos fibres by weight, within the sample (total weight 862.63g), which is calculated as less than the reporting limit for the method (i.e. < 0.1g/kg).

Sample 103553-17; Chrysotile asbestos identified in matted material and loose fibre bundles of Amosite & Crocidolite identified (total weight 0.0261g). It is estimated that the combined asbestos content contains up to 90% asbestos fibres by weight. This calculates to 0.0235g of asbestos fibres, within the sample (total weight 863.63g), which is calculated as less than the reporting limit for the method (i.e. < 0.1g/kg).

Sample 103553-24; Loose fibre bundles of Chrysotile asbestos identified within the sample (total weight 0.0015g). This is 100% asbestos fibres by weight, within the sample (total weight 940.73g), which is calculated as less than the reporting limit for the method (i.e. < 0.1g/kg).

Asbestos ID was analysed by Approved Identifier: Alex Tam
Asbestos ID was authorised by Approved Signatory: Matt Mansfield

INS: Insufficient sample for this test
NA: Test not required
<: Less than

PQL: Practical Quantitation Limit
RPD: Relative Percent Difference
>: Greater than

NT: Not tested
NA: Test not required
LCS: Laboratory Control Sample

Quality Control Definitions

Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

Duplicate: This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

Matrix Spike : A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

LCS (Laboratory Control Sample) : This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Surrogate Spike: Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.
Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.
Spikes for Physical and Aggregate Tests are not applicable.
For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.
Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for SVOC and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Envirolab Services Pty Ltd
12 Ashley Street
Chatswood
NSW 2067

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square Block 5 B
SEND REPORT TO: N Cussen SEND INVOICE TO: G Ng
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: Chris
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: ncussen@jbsg.com.au
QC LEVEL: NEPM (2013)

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	COMBO SUITES: SOIL - 4	SOIL - 4L	SOIL - 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER – 1m	WATER – 2L	WATER – 3L	Asbestos (cw)	NOTES:
1	FC008 0.2 - 0.3	Soil	14.1.14		Bag												X	
2	FC008 0.8 - 1.0																	
3	FC008 1.8 - 2.0																X	
4	FC008 3.8 - 4.0																	
5	FC008 6.1 - 6.3																X	
6	FC010 0.2 - 0.3																	
7	FC010 0.8 - 1.0																X	
8	FC010 1.8 - 2.0																	
9	FC010 2.8 - 3.0																X	
10	FC010 5.8 - 6.0																	
11	FC011 0.2 - 0.3																X	
12	FC011 0.8 - 1.0																X	
13	FC011 1.8 - 2.0																X	
14	FC011 3.8 - 4.0																	
15	FC011 5.8 - 6.0																X	
16	FC092 0.2 - 0.3																	
17	FC092 0.8 - 1.0																X	
18	FC092 1.8 - 2.0																	

ENVIROLAB
Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200
Job No: 103553
Date Received: 15/1/14
Time Received: 15:30
Received by:
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Nathan DATE: 14.01.14	CONSIGNMENT NOTE NO.	NAME: Kevin Wang	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 15/1/14 15:30	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Envirolab

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

Envirolab Services Pty Ltd
12 Ashley Street
Chatswood
NSW 2067

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square Block 5 B
SEND REPORT TO: N Cussen SEND INVOICE TO: G Ng
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: Chris
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: ncussen@jbsg.com.au
QC LEVEL: NEPM (2013)

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	COMBO SUITES: SOIL - 4	SOIL – 4L	SOIL – 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER – 1m	WATER – 2L	WATER – 3L	Asbestos	NOTES:
18	FC093 3.8-4.0	Soil	14.1.14		Bag													
19 ~~20~~	FC093 5.8-6.0																X	
20	FC093 0.2-0.3																X	
21	FC093 0.8-1.0																X	
22 ~~23~~	FC093 1.8-2.0																	
23 ~~24~~	FC093 3.9-4.1																	
24 ~~25~~	FC093 5.9-6.1																	
25 ~~26~~	QC11																X	
	QC11-A																X	
26 ~~27~~	QC12						Please send to P&R											
	QC12-A																X	
							Please send to P&R											

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Nathan DATE: 14.01.14	CONSIGNMENT NOTE NO.	NAME: Kevin Wang DATE: 15/1/14 15:30	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	OF: JBS	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

SAMPLE RECEIPT ADVICE

Client:

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney NSW 2000

ph: 02 8245 0300
Fax: 02 8245 0399

Attention: Joanne Rosner, Nathan Cussen

Sample log in details:

Your reference:	**43182, Green Square Block 5B**
Envirolab Reference:	**103552-A**
Date received:	15/01/14
Date results expected to be reported:	**22/01/14**

Samples received in appropriate condition for analysis:	YES
No. of samples provided	34 soil
Turnaround time requested:	Standard
Temperature on receipt (°C)	NA
Cooling Method:	None
Sampling Date Provided:	YES

Comments:

Samples will be held for 1 month for water samples and 2 months for soil samples from date of receipt of samples.

Contact details:

Please direct any queries to Aileen Hie or Jacinta Hurst
ph: 02 9910 6200 fax: 02 9910 6201
email: ahie@envirolabservices.com.au or jhurst@envirolabservices.com.au

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

CERTIFICATE OF ANALYSIS 103552-A

Client:
JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention: Joanne Rosner, Nathan Cussen

Sample log in details:

Your Reference:	**43182, Green Square Block 5B**
No. of samples:	34 soil
Date samples received / completed instructions received	15/01/14 / 15/01/14

Analysis Details:
Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by: / Issue Date:	22/01/14 / 23/01/14
Date of Preliminary Report:	Issued 22/01/2014

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Accredited for compliance with ISO/IEC 17025. **Tests not covered by NATA are denoted with *.**

Results Approved By:

Jacinta Hurst
Laboratory Manager

Asbestos ID - soils WA			
Our Reference:	UNITS	103552-A-30	103552-A-33
Your Reference	----------	FC09	FC09
Depth	----------	0.2-0.3	2.8-3.0
Date Sampled		13/01/2014	13/01/2014
Type of sample		soil	soil
Date analysed	-	22/01/2014	22/01/2014
Sample mass tested	g	1160.14g	894.20g
Sample Description	-	Grey fine-grained soil & rocks	White coarse-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected	No respirable fibres detected

Method ID	Methodology Summary
ASB-003	Asbestos ID - Minimum 500mL soil sample was analysed as recommended by "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.1g/kg as per AS4964-2004.

Report Comments:

This report is consistent with the analytical procedures and reporting recommendations in the Western Australian Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009.

Asbestos ID was analysed by Approved Identifier: Alex Tam
Asbestos ID was authorised by Approved Signatory: Paul Ching

INS: Insufficient sample for this test
NA: Test not required
<: Less than

PQL: Practical Quantitation Limit
RPD: Relative Percent Difference
>: Greater than

NT: Not tested
NA: Test not required
LCS: Laboratory Control Sample

Quality Control Definitions

Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

Duplicate: This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

Matrix Spike : A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

LCS (Laboratory Control Sample) : This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Surrogate Spike: Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.
Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.
Spikes for Physical and Aggregate Tests are not applicable.
For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.
Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for SVOC and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Envirolab Services Pty Ltd
Ashley Street
Chatswood
NSW 2067

Page 1 of 1

CHAIN OF CUSTODY

103552

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Crown Square Stage 5B
SEND REPORT TO: N Cussen SEND INVOICE TO: As Req
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: Chris
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: nausse@jbsg.com.au

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	COMBO SUITES: SOIL - 4	SOIL – 4L	SOIL – 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER – 1m	WATER – 2L	WATER – 3L	Asbestos	NOTES:
30	FC004 0.2-0.3	Soil	14.1.14		Bag													
31	FC004 0.8-1.0	↓	↓		↓												X	
32	FC004 1.5-1.7																	
33	FC004 2.8-3.0																	
34	FC004 5.8-6.0	↓	↓		↓												X	

103552A

due 22/1

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Nathan DATE: 16.1.14	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE:	
NAME: DATE:	CONSIGNMENT NOTE NO.	OF:	COOLER TEMP ..... deg C
OF:	TRANSPORT CO	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
		OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Envirolab

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

Envirolab Services Pty Ltd
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12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

SAMPLE RECEIPT ADVICE

Client:

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney NSW 2000

ph: 02 8245 0300
Fax: 02 8245 0399

Attention: Nathan

Sample log in details:

Your reference:	**43182, Green Square Block 5B**
Envirolab Reference:	**103545**
Date received:	15/01/2014
Date results expected to be reported:	**22/01/14**

Samples received in appropriate condition for analysis:	YES
No. of samples provided	2 Soils
Turnaround time requested:	Standard
Temperature on receipt (°C)	5.2
Cooling Method:	Ice Pack
Sampling Date Provided:	YES

Comments:

Samples will be held for 1 month for water samples and 2 months for soil samples from date of receipt of samples.

Contact details:

Please direct any queries to Aileen Hie or Jacinta Hurst
ph: 02 9910 6200 fax: 02 9910 6201
email: ahie@envirolabservices.com.au or jhurst@envirolabservices.com.au

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12 Ashley St Chatswood NSW 2067
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enquiries@envirolabservices.com.au
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CERTIFICATE OF ANALYSIS 103545

Client:
JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention: Nathan

Sample log in details:

Your Reference:	**43182, Green Square Block 5B**
No. of samples:	2 Soils
Date samples received / completed instructions received	15/01/2014 / 15/01/2014

Analysis Details:
Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by: / Issue Date:	22/01/14 / 20/01/14
Date of Preliminary Report:	Not issued

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Accredited for compliance with ISO/IEC 17025. **Tests not covered by NATA are denoted with *.**

Results Approved By:

Jacinta Hurst
Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil			
Our Reference:	UNITS	103545-1	103545-2
Your Reference	----------	QC11-A	QC12-A
Date Sampled	----------	14/01/2014	14/01/2014
Type of sample		Soil	Soil
Date extracted	-	16/01/2014	16/01/2014
Date analysed	-	17/01/2014	17/01/2014
TRHC$_6$ - C$_9$	mg/kg	<25	<25
TRHC$_6$ - C$_{10}$	mg/kg	<25	<25
vTPHC$_6$ - C$_{10}$ less BTEX (F1)	mg/kg	<25	<25
Benzene	mg/kg	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1
m+p-xylene	mg/kg	<2	<2
o-Xylene	mg/kg	<1	<1
naphthalene	mg/kg	<1	<1
Surrogate aaa-Trifluorotoluene	%	89	91

svTRH (C10-C40) in Soil			
Our Reference:	UNITS	103545-1	103545-2
Your Reference	----------	QC11-A	QC12-A
Date Sampled	----------	14/01/2014	14/01/2014
Type of sample		Soil	Soil
Date extracted	-	16/01/2014	16/01/2014
Date analysed	-	16/01/2014	16/01/2014
TRHC$_{10}$ - C$_{14}$	mg/kg	<50	<50
TRHC$_{15}$ - C$_{28}$	mg/kg	220	<100
TRHC$_{29}$ - C$_{36}$	mg/kg	260	<100
TRH>C$_{10}$-C$_{16}$	mg/kg	<50	<50
TRH>C$_{10}$ - C$_{16}$ less Naphthalene (F2)	mg/kg	<50	<50
TRH>C$_{16}$-C$_{34}$	mg/kg	430	<100
TRH>C$_{34}$-C$_{40}$	mg/kg	120	<100
Surrogate o-Terphenyl	%	101	97

PAHs in Soil Our Reference: Your Reference Date Sampled Type of sample	UNITS ---------- ----------	103545-1 QC11-A 14/01/2014 Soil	103545-2 QC12-A 14/01/2014 Soil
Date extracted	-	16/01/2014	16/01/2014
Date analysed	-	17/01/2014	17/01/2014
Naphthalene	mg/kg	0.2	<0.1
Acenaphthylene	mg/kg	0.8	<0.1
Acenaphthene	mg/kg	0.1	<0.1
Fluorene	mg/kg	0.4	<0.1
Phenanthrene	mg/kg	3.6	0.3
Anthracene	mg/kg	1.1	<0.1
Fluoranthene	mg/kg	8.2	0.7
Pyrene	mg/kg	8.1	0.6
Benzo(a)anthracene	mg/kg	4.3	0.4
Chrysene	mg/kg	4.0	0.3
Benzo(b+k)fluoranthene	mg/kg	8.9	0.7
Benzo(a)pyrene	mg/kg	6.2	0.45
Indeno(1,2,3-c,d)pyrene	mg/kg	4.6	0.3
Dibenzo(a,h)anthracene	mg/kg	0.6	<0.1
Benzo(g,h,i)perylene	mg/kg	4.2	0.3
Benzo(a)pyrene TEQ NEPM B1	mg/kg	9.0	1
Total +ve PAH's	mg/kg	55	4.0
Surrogate p-Terphenyl-d14	%	105	98

Organochlorine Pesticides in soil			
Our Reference:	UNITS	103545-1	103545-2
Your Reference	----------	QC11-A	QC12-A
Date Sampled	----------	14/01/2014	14/01/2014
Type of sample		Soil	Soil
Date extracted	-	16/01/2014	16/01/2014
Date analysed	-	17/01/2014	17/01/2014
HCB	mg/kg	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1
Surrogate TCMX	%	98	93

PCBs in Soil			
Our Reference:	UNITS	103545-1	103545-2
Your Reference	----------	QC11-A	QC12-A
Date Sampled	----------	14/01/2014	14/01/2014
Type of sample		Soil	Soil
Date extracted	-	16/01/2014	16/01/2014
Date analysed	-	17/01/2014	17/01/2014
Arochlor 1016	mg/kg	<0.1	<0.1
Arochlor 1221	mg/kg	<0.1	<0.1
Arochlor 1232	mg/kg	<0.1	<0.1
Arochlor 1242	mg/kg	<0.1	<0.1
Arochlor 1248	mg/kg	<0.1	<0.1
Arochlor 1254	mg/kg	<0.1	<0.1
Arochlor 1260	mg/kg	<0.1	<0.1
Surrogate TCLMX	%	98	93

Acid Extractable metals in soil			
Our Reference:	UNITS	103545-1	103545-2
Your Reference	----------	QC11-A	QC12-A
Date Sampled	----------	14/01/2014	14/01/2014
Type of sample		Soil	Soil
Date digested	-	16/01/2014	16/01/2014
Date analysed	-	16/01/2014	16/01/2014
Arsenic	mg/kg	10	30
Cadmium	mg/kg	0.4	2
Chromium	mg/kg	14	58
Copper	mg/kg	180	670
Lead	mg/kg	300	1,800
Mercury	mg/kg	0.7	0.3
Nickel	mg/kg	17	73
Zinc	mg/kg	390	2,900

Moisture			
Our Reference:	UNITS	103545-1	103545-2
Your Reference	----------	QC11-A	QC12-A
Date Sampled	----------	14/01/2014	14/01/2014
Type of sample		Soil	Soil
Date prepared	-	16/01/2014	16/01/2014
Date analysed	-	17/01/2014	17/01/2014
Moisture	%	12	13

Method ID	Methodology Summary
Org-016	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-014	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-003	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note Naphthalene is determined from the VOC analysis.
Org-012 subset	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.
Org-005	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.
Org-006	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.
Metals-020 ICP-AES	Determination of various metals by ICP-AES.
Metals-021 CV-AAS	Determination of Mercury by Cold Vapour AAS.
Inorg-008	Moisture content determined by heating at 105+/-5 deg C for a minimum of 12 hours.

QUALITY CONTROL vTRH(C6-C10)/BTEXN in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			16/01/2014	[NT]	[NT]	LCS-1	16/01/2014
Date analysed	-			16/01/2014	[NT]	[NT]	LCS-1	17/01/2014
TRHC$_6$ - C$_9$	mg/kg	25	Org-016	<25	[NT]	[NT]	LCS-1	107%
TRHC$_6$ - C$_{10}$	mg/kg	25	Org-016	<25	[NT]	[NT]	LCS-1	107%
Benzene	mg/kg	0.2	Org-016	<0.2	[NT]	[NT]	LCS-1	95%
Toluene	mg/kg	0.5	Org-016	<0.5	[NT]	[NT]	LCS-1	105%
Ethylbenzene	mg/kg	1	Org-016	<1	[NT]	[NT]	LCS-1	109%
m+p-xylene	mg/kg	2	Org-016	<2	[NT]	[NT]	LCS-1	111%
o-Xylene	mg/kg	1	Org-016	<1	[NT]	[NT]	LCS-1	114%
naphthalene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NR]	[NR]
Surrogate aaa-Trifluorotoluene	%		Org-016	99	[NT]	[NT]	LCS-1	97%
QUALITY CONTROL svTRH (C10-C40) in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			16/01/2014	[NT]	[NT]	LCS-1	16/01/2014
Date analysed	-			16/01/2014	[NT]	[NT]	LCS-1	16/01/2014
TRHC$_{10}$ - C$_{14}$	mg/kg	50	Org-003	<50	[NT]	[NT]	LCS-1	125%
TRHC$_{15}$ - C$_{28}$	mg/kg	100	Org-003	<100	[NT]	[NT]	LCS-1	101%
TRHC$_{29}$ - C$_{36}$	mg/kg	100	Org-003	<100	[NT]	[NT]	LCS-1	92%
TRH>C$_{10}$-C$_{16}$	mg/kg	50	Org-003	<50	[NT]	[NT]	LCS-1	125%
TRH>C$_{16}$-C$_{34}$	mg/kg	100	Org-003	<100	[NT]	[NT]	LCS-1	101%
TRH>C$_{34}$-C$_{40}$	mg/kg	100	Org-003	<100	[NT]	[NT]	LCS-1	92%
Surrogate o-Terphenyl	%		Org-003	93	[NT]	[NT]	LCS-1	102%
QUALITY CONTROL PAHs in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			16/01/2014	[NT]	[NT]	LCS-1	16/01/2014
Date analysed	-			17/01/2014	[NT]	[NT]	LCS-1	17/01/2014
Naphthalene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-1	105%
Acenaphthylene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Acenaphthene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Fluorene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-1	105%
Phenanthrene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-1	102%
Anthracene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Fluoranthene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-1	98%

QUALITY CONTROL PAHs in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base II Duplicate II %RPD	Spike Sm#	Spike % Recovery
Pyrene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-1	105%
Benzo(a)anthracene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Chrysene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	LCS-1	99%
Benzo(b+k)fluoranthene	mg/kg	0.2	Org-012 subset	<0.2	[NT]	[NT]	[NR]	[NR]
Benzo(a)pyrene	mg/kg	0.05	Org-012 subset	<0.05	[NT]	[NT]	LCS-1	110%
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-012 subset	<0.1	[NT]	[NT]	[NR]	[NR]
Surrogate p-Terphenyl-d14	%		Org-012 subset	97	[NT]	[NT]	LCS-1	101%

QUALITY CONTROL Organochlorine Pesticides in soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base II Duplicate II %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			16/01/2014	[NT]	[NT]	LCS-1	16/01/2014
Date analysed	-			17/01/2014	[NT]	[NT]	LCS-1	17/01/2014
HCB	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
alpha-BHC	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-1	114%
gamma-BHC	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
beta-BHC	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-1	110%
Heptachlor	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-1	116%
delta-BHC	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
Aldrin	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-1	119%
Heptachlor Epoxide	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-1	116%
gamma-Chlordane	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
alpha-chlordane	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
Endosulfan I	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
pp-DDE	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-1	123%
Dieldrin	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-1	117%
Endrin	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-1	108%
pp-DDD	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-1	112%
Endosulfan II	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
pp-DDT	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
Endrin Aldehyde	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
Endosulfan Sulphate	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	LCS-1	110%
Methoxychlor	mg/kg	0.1	Org-005	<0.1	[NT]	[NT]	[NR]	[NR]
Surrogate TCMX	%		Org-005	96	[NT]	[NT]	LCS-1	98%

QUALITY CONTROL PCBs in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			16/01/2014	[NT]	[NT]	LCS-1	16/01/2014
Date analysed	-			17/01/2014	[NT]	[NT]	LCS-1	17/01/2014
Arochlor 1016	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1221	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1232	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1242	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1248	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1254	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	LCS-1	88%
Arochlor 1260	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NR]	[NR]
Surrogate TCLMX	%		Org-006	96	[NT]	[NT]	LCS-1	94%
QUALITY CONTROL Acid Extractable metals in soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date digested	-			16/01/2014	[NT]	[NT]	LCS-9	16/01/2014
Date analysed	-			16/01/2014	[NT]	[NT]	LCS-9	16/01/2014
Arsenic	mg/kg	4	Metals-020 ICP-AES	<4	[NT]	[NT]	LCS-9	94%
Cadmium	mg/kg	0.4	Metals-020 ICP-AES	<0.4	[NT]	[NT]	LCS-9	98%
Chromium	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-9	99%
Copper	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-9	98%
Lead	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-9	96%
Mercury	mg/kg	0.1	Metals-021 CV-AAS	<0.1	[NT]	[NT]	LCS-9	90%
Nickel	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-9	98%
Zinc	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	LCS-9	97%

QUALITY CONTROL Moisture	UNITS	PQL	METHOD	Blank
Date prepared	-			[NT]
Date analysed	-			[NT]
Moisture	%	0.1	Inorg-008	[NT]

Report Comments:

Asbestos ID was analysed by Approved Identifier:	Not applicable for this job
Asbestos ID was authorised by Approved Signatory:	Not applicable for this job

INS: Insufficient sample for this test	PQL: Practical Quantitation Limit	NT: Not tested
NA: Test not required	RPD: Relative Percent Difference	NA: Test not required
<: Less than	>: Greater than	LCS: Laboratory Control Sample

Quality Control Definitions

Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

Duplicate: This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

Matrix Spike : A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

LCS (Laboratory Control Sample) : This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Surrogate Spike: Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.
Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.
Spikes for Physical and Aggregate Tests are not applicable.
For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.
Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for SVOC and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Envirolab Services Pty Ltd
12 Ashley Street
Chatswood
NSW 2067

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Crean Square Block 5 B
SEND REPORT TO: SEND INVOICE TO:
DATE NEEDED BY:

LABORATORY BATCH NO.:
SAMPLERS: Chris
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: mcussane@jbsg.com.au
QC LEVEL: NEPM (2013)

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	SOIL – 4	SOIL – 4L	SOIL – 4A	SOIL – 5	SOIL 5A	SOIL 5B	SOIL – 12	WATER – 1m	WATER – 2L	WATER – 3L	NOTES:
1	QC11-A	Soil	14.1.14		Jar + Ice					X							
2	QC12-A	↓	↓		↓					X							

COMBO SUITES

ENVIROLAB

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 103545
Date Received: 15/01
Time Received: 15:30
Received by: SW
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Nathan DATE: 14.01.14 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: Sophie DATE: OF: ES	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C
NAME: DATE: OF:	CONSIGNMENT NOTE NO. TRANSPORT CO	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Envirolab

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

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ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

Melbourne
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NATA # 1261
Site # 1254 & 14271

Sydney
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Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Sample Receipt Advice

Company name: **JBS & G (NSW & WA) Pty Ltd**

Contact name: Nathan Cussen
Client job number: ADDITIONAL: GREEN SQUARE BLOCK 5A 43182
COC number: Not provided
Turn around time: 5 Day
Date/Time received: Jan 28, 2014 9:00 AM
Eurofins | mgt reference: **406759**

Sample information

☑ A detailed list of analytes logged into our LIMS, is included in the attached summary table.

☑ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt Sample Receipt : 10.5 degrees Celsius.

☑ All samples have been received as described on the above COC.

☑ COC has been completed correctly.

☑ Attempt to chill was evident.

☑ Appropriately preserved sample containers have been used.

☑ All samples were received in good condition.

☑ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.

☑ Organic samples had Teflon liners.

☒ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Notes

Additional from 405943

Contact notes

If you have any questions with respect to these samples please contact:

Jean Heng on Phone : (+61) (2) 9900 8400 or by e.mail: JeanHeng@eurofins.com.au

Results will be delivered electronically via e.mail to Nathan Cussen - ncussen@jbsg.com.au.

Eurofins | mgt Sample Receipt

eurofins | mgt

ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

Melbourne
3-5 Kingston Town Close
Oakleigh VIC 3166
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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16 Mars Road
Lane Cove West NSW 2066
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NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: ADDITIONAL: GREEN SQUARE BLOCK 5A 43182

Order No.:
Report #: 406759
Phone: 02 8245 0300
Fax:

Received: Jan 28, 2014 9:00 AM
Due: Feb 4, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Lead	Polycyclic Aromatic Hydrocarbons	Toxicity Characteristic Leaching Procedure (TCLP)	Metals M8
Laboratory where analysis is conducted									
Melbourne Laboratory - NATA Site # 1254 & 14271									
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794									
External Laboratory									
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**					
FC102 0.5	Jan 16, 2014		TCLP	S14-Ja13603	X		X	X	
FC102 2.0	Jan 16, 2014		TCLP	S14-Ja13604	X			X	X
FC102 4.0	Jan 16, 2014		TCLP	S14-Ja13605	X	X		X	

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Certificate of Analysis

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Nathan Cussen**

Report **406759-L**
Client Reference ADDITIONAL: GREEN SQUARE BLOCK 5A 43182
Received Date Jan 28, 2014

Client Sample ID **Sample Matrix** **Eurofins | mgt Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**FC102 0.5** **TCLP** **S14-Ja13603** **Jan 16, 2014**	**FC102 2.0** **TCLP** **S14-Ja13604** **Jan 16, 2014**	**FC102 4.0** **TCLP** **S14-Ja13605** **Jan 16, 2014**
Polycyclic Aromatic Hydrocarbons					
Acenaphthene	0.001	mg/L	< 0.001	-	-
Acenaphthylene	0.001	mg/L	< 0.001	-	-
Anthracene	0.001	mg/L	< 0.001	-	-
Benz(a)anthracene	0.001	mg/L	< 0.001	-	-
Benzo(a)pyrene	0.001	mg/L	< 0.001	-	-
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	< 0.001	-	-
Benzo(g.h.i)perylene	0.001	mg/L	< 0.001	-	-
Benzo(k)fluoranthene	0.001	mg/L	< 0.001	-	-
Chrysene	0.001	mg/L	< 0.001	-	-
Dibenz(a.h)anthracene	0.001	mg/L	< 0.001	-	-
Fluoranthene	0.001	mg/L	< 0.001	-	-
Fluorene	0.001	mg/L	< 0.001	-	-
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001	-	-
Naphthalene	0.001	mg/L	< 0.001	-	-
Phenanthrene	0.001	mg/L	< 0.001	-	-
Pyrene	0.001	mg/L	< 0.001	-	-
Total PAH	0.002	mg/L	< 0.001	-	-
2-Fluorobiphenyl (surr.)	1	%	74	-	-
p-Terphenyl-d14 (surr.)	1	%	95	-	-
Heavy Metals					
Arsenic	0.01	mg/L	-	< 0.01	-
Cadmium	0.005	mg/L	-	< 0.005	-
Chromium	0.05	mg/L	-	< 0.05	-
Copper	0.05	mg/L	-	< 0.05	-
Lead	0.01	mg/L	-	0.09	0.23
Mercury	0.001	mg/L	-	< 0.001	-
Nickel	0.05	mg/L	-	< 0.05	-
Zinc	0.05	mg/L	-	0.15	-
% Moisture	0.1	%	7.6	8.0	11
Toxicity Characteristic Leaching Procedure (TCLP)					
Leachate Fluid[C01]		comment	1.0	1.0	1.0
pH (TCLP - HCl addition)	0.1	units	2.0	1.9	1.9
pH (TCLP - initial)	0.1	units	7.6	8.2	8.3
pH (TCLP - off)	0.1	units	5.0	5.1	5.5

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Polycyclic Aromatic Hydrocarbons	Sydney	Jan 30, 2014	7 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Metals M8	Sydney	Jan 28, 2014	28 Day
- Method: E022 Acid Extractable metals in Soils & E026 Mercury			
Heavy Metals	Sydney	Jan 28, 2014	180 Day
- Method: E022 Acid Extractable metals in Soils			
% Moisture	Sydney	Jan 28, 2014	0 Day
- Method: E005 Moisture Content			
Toxicity Characteristic Leaching Procedure (TCLP)	Sydney	Jan 28, 2014	0 Day
- Method: E019 TCLP Preparation			

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ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

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Murarrie QLD 4172
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NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: ADDITIONAL: GREEN SQUARE BLOCK 5A 43182

Order No.:
Report #: 406759
Phone: 02 8245 0300
Fax:

Received: Jan 28, 2014 9:00 AM
Due: Feb 4, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Lead	Polycyclic Aromatic Hydrocarbons	Toxicity Characteristic Leaching Procedure (TCLP)	Metals M8
Laboratory where analysis is conducted									
Melbourne Laboratory - NATA Site # 1254 & 14271									
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794									
External Laboratory									
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**					
FC102 0.5	Jan 16, 2014		TCLP	S14-Ja13603	X		X	X	
FC102 2.0	Jan 16, 2014		TCLP	S14-Ja13604	X			X	X
FC102 4.0	Jan 16, 2014		TCLP	S14-Ja13605	X	X		X	

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

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Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/L	< 0.001			0.001	Pass	
Acenaphthylene	mg/L	< 0.001			0.001	Pass	
Anthracene	mg/L	< 0.001			0.001	Pass	
Benz(a)anthracene	mg/L	< 0.001			0.001	Pass	
Benzo(a)pyrene	mg/L	< 0.001			0.001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.001			0.001	Pass	
Benzo(g.h.i)perylene	mg/L	< 0.001			0.001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.001			0.001	Pass	
Chrysene	mg/L	< 0.001			0.001	Pass	
Dibenz(a.h)anthracene	mg/L	< 0.001			0.001	Pass	
Fluoranthene	mg/L	< 0.001			0.001	Pass	
Fluorene	mg/L	< 0.001			0.001	Pass	
Indeno(1.2.3-cd)pyrene	mg/L	< 0.001			0.001	Pass	
Naphthalene	mg/L	< 0.001			0.001	Pass	
Phenanthrene	mg/L	< 0.001			0.001	Pass	
Pyrene	mg/L	< 0.001			0.001	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.01			0.01	Pass	
Cadmium	mg/L	< 0.005			0.005	Pass	
Chromium	mg/L	< 0.05			0.05	Pass	
Copper	mg/L	< 0.05			0.05	Pass	
Lead	mg/L	< 0.01			0.01	Pass	
Mercury	mg/L	< 0.001			0.001	Pass	
Nickel	mg/L	< 0.05			0.05	Pass	
Zinc	mg/L	< 0.05			0.05	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S14-Ja10270	NCP	%	92			70-130	Pass	
Cadmium	S14-Ja10270	NCP	%	98			70-130	Pass	
Chromium	S14-Ja10270	NCP	%	88			70-130	Pass	
Copper	S14-Ja10270	NCP	%	85			70-130	Pass	
Lead	S14-Ja10270	NCP	%	87			70-130	Pass	
Mercury	S14-Ja10270	NCP	%	106			70-130	Pass	
Nickel	S14-Ja10270	NCP	%	87			70-130	Pass	
Zinc	S14-Ja10270	NCP	%	89			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S14-Ja10269	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Cadmium	S14-Ja10269	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Chromium	S14-Ja10269	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Copper	S14-Ja10269	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Lead	S14-Ja10269	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Mercury	S14-Ja10269	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Nickel	S14-Ja10269	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Zinc	S14-Ja10269	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
C01	Leachate Fluid Key: 1 - pH 5.0, 2 - pH 2.9, 3 - pH 9.2, 4 - Reagent (DI) water, 5 - Client sample, 6 - other
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs

Authorised By

Jean Heng	Client Services
James Norford	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)

Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

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Jasmine 28/01/14 9am

From: Nathan Cussen
Sent: Tuesday, 28 January 2014 8:38 AM
To: 'Jean Heng'
Subject: Lab Batch 405943 - Green Square Block 5A

Hi Jean,

Hope this email finds you well after the Australia Day weekend.

Could I please schedule the following TCLP analysis:

- FC102 0.5 PAH
- FC102 2.0 METALS
- FC102 4.0 LEAD

Regards,
Nathan

#406759

Nathan Cussen | Senior Environmental Consultant| JBS&G
Sydney | Melbourne | Adelaide | Perth | Brisbane
Level 1, 50 Margaret Street, Sydney NSW 2000
T: 02 8245 0300 | M: 0431 401 022| www.jbsg.com.au
Contaminated Land | Groundwater Remediation | Auditing and Compliance | Assessments and Approvals | Occupational Hygiene and Monitoring

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Melbourne
3-5 Kingston Town Close
Oakleigh Vic 3166
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F6, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Sample Receipt Advice

Company name: **JBS & G (NSW & WA) Pty Ltd**

Contact name: Nathan Cussen
Client job number: ADDITIONAL: GREEN SQUARE BLOCK 5A 43182
COC number: Not provided
Turn around time: 5 Day
Date/Time received: Jan 23, 2014 10:16 AM
Eurofins | mgt reference: **406434**

Sample information

☑ A detailed list of analytes logged into our LIMS, is included in the attached summary table.

☑ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt Sample Receipt : 11 degrees Celsius.

☑ All samples have been received as described on the above COC.

☑ COC has been completed correctly.

☑ Attempt to chill was evident.

☑ Appropriately preserved sample containers have been used.

☑ All samples were received in good condition.

☑ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.

☑ Organic samples had Teflon liners.

☑ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Notes

Additional from report 405699| Coal Tar analysis conducted at Envirolab.

Contact notes

If you have any questions with respect to these samples please contact:

Jean Heng on Phone : (+61) (2) 9900 8400 or by e.mail: JeanHeng@eurofins.com.au

Results will be delivered electronically via e.mail to Nathan Cussen - ncussen@jbsg.com.au.

Eurofins | mgt Sample Receipt

eurofins | mgt

ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

Melbourne
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Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: ADDITIONAL: GREEN SQUARE BLOCK 5A 43182

Order No.:
Report #: 406434
Phone: 02 8245 0300
Fax:

Received: Jan 23, 2014 10:16 AM
Due: Jan 31, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Asphalt*	Lead	Polycyclic Aromatic Hydrocarbons	Toxicity Characteristic Leaching Procedure (TCLP)	Metals M8
Laboratory where analysis is conducted										
Melbourne Laboratory - NATA Site # 1254 & 14271										
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794										
External Laboratory										
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**						
FC001 0.2-0.3	Jan 13, 2014		TCLP	S14-Ja10878	X	X		X	X	X
FC002 0.8-1.0	Jan 13, 2014		TCLP	S14-Ja10879	X			X	X	
FC003 0.8-1.0	Jan 13, 2014		TCLP	S14-Ja10880	X			X	X	X
FC003 2.8-3.0	Jan 13, 2014		TCLP	S14-Ja10881	X			X	X	X
FC005 0.2-0.3	Jan 13, 2014		TCLP	S14-Ja10882	X			X	X	X
FC006 0.2-0.3	Jan 13, 2014		TCLP	S14-Ja10883	X		X		X	
FC090 0.8-1.0	Jan 13, 2014		TCLP	S14-Ja10884	X		X	X	X	

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Certificate of Analysis

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Nathan Cussen**

Report **406434-L**
Client Reference ADDITIONAL: GREEN SQUARE BLOCK 5A 43182
Received Date Jan 23, 2014

Client Sample ID **Sample Matrix** **Eurofins | mgt Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**FC001 0.2-0.3** **TCLP** **S14-Ja10878** **Jan 13, 2014**	**FC002 0.8-1.0** **TCLP** **S14-Ja10879** **Jan 13, 2014**	**FC003 0.8-1.0** **TCLP** **S14-Ja10880** **Jan 13, 2014**	**FC003 2.8-3.0** **TCLP** **S14-Ja10881** **Jan 13, 2014**
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.001	mg/L	< 0.001	0.002	< 0.001	0.003
Acenaphthylene	0.001	mg/L	< 0.001	0.001	< 0.001	< 0.001
Anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	0.001
Benz(a)anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(a)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(g.h.i)perylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(k)fluoranthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chrysene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dibenz(a.h)anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Fluoranthene	0.001	mg/L	0.001	< 0.001	0.001	0.001
Fluorene	0.001	mg/L	< 0.001	0.002	< 0.001	0.003
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Naphthalene	0.001	mg/L	0.001	< 0.001	0.014	0.010
Phenanthrene	0.001	mg/L	0.004	0.003	0.003	0.006
Pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	0.001
Total PAH	0.002	mg/L	0.006	0.008	0.018	0.025
2-Fluorobiphenyl (surr.)	1	%	93	92	88	94
p-Terphenyl-d14 (surr.)	1	%	128	124	122	126
Heavy Metals						
Arsenic	0.01	mg/L	< 0.01	-	< 0.01	< 0.01
Cadmium	0.005	mg/L	< 0.005	-	0.005	0.010
Chromium	0.05	mg/L	< 0.05	-	< 0.05	< 0.05
Copper	0.05	mg/L	0.09	-	< 0.05	0.08
Lead	0.01	mg/L	0.14	-	0.28	0.32
Mercury	0.001	mg/L	< 0.001	-	< 0.001	< 0.001
Nickel	0.05	mg/L	< 0.05	-	< 0.05	< 0.05
Zinc	0.05	mg/L	0.55	-	0.90	5.7
% Moisture	0.1	%	5.9	7.5	6.2	6.1
Toxicity Characteristic Leaching Procedure (TCLP)						
Leachate Fluid[C01]		comment	1.0	1.0	1.0	1.0
pH (TCLP - HCl addition)	0.1	units	1.8	1.8	1.8	1.9
pH (TCLP - initial)	0.1	units	9.0	8.7	8.7	8.7
pH (TCLP - off)	0.1	units	6.0	5.0	5.8	5.2
Foreign Material - Type I						
Asphalt*			see attached	-	-	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC005 0.2-0.3 TCLP S14-Ja10882 Jan 13, 2014	FC006 0.2-0.3 TCLP S14-Ja10883 Jan 13, 2014	FC090 0.8-1.0 TCLP S14-Ja10884 Jan 13, 2014
Polycyclic Aromatic Hydrocarbons					
Acenaphthene	0.001	mg/L	0.001	-	< 0.001
Acenaphthylene	0.001	mg/L	0.001	-	< 0.001
Anthracene	0.001	mg/L	< 0.001	-	< 0.001
Benz(a)anthracene	0.001	mg/L	< 0.001	-	< 0.001
Benzo(a)pyrene	0.001	mg/L	< 0.001	-	< 0.001
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	< 0.001	-	< 0.001
Benzo(g.h.i)perylene	0.001	mg/L	< 0.001	-	< 0.001
Benzo(k)fluoranthene	0.001	mg/L	< 0.001	-	< 0.001
Chrysene	0.001	mg/L	< 0.001	-	< 0.001
Dibenz(a.h)anthracene	0.001	mg/L	< 0.001	-	< 0.001
Fluoranthene	0.001	mg/L	< 0.001	-	< 0.001
Fluorene	0.001	mg/L	0.001	-	< 0.001
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001	-	< 0.001
Naphthalene	0.001	mg/L	0.002	-	< 0.001
Phenanthrene	0.001	mg/L	0.002	-	< 0.001
Pyrene	0.001	mg/L	< 0.001	-	< 0.001
Total PAH	0.002	mg/L	0.007	-	< 0.001
2-Fluorobiphenyl (surr.)	1	%	99	-	88
p-Terphenyl-d14 (surr.)	1	%	130	-	122
Heavy Metals					
Arsenic	0.01	mg/L	< 0.01	-	-
Cadmium	0.005	mg/L	< 0.005	-	-
Chromium	0.05	mg/L	< 0.05	-	-
Copper	0.05	mg/L	< 0.05	-	-
Lead	0.01	mg/L	4.1	0.25	0.54
Mercury	0.001	mg/L	< 0.001	-	-
Nickel	0.05	mg/L	< 0.05	-	-
Zinc	0.05	mg/L	0.86	-	-
% Moisture	0.1	%	9.6	7.6	9.6
Toxicity Characteristic Leaching Procedure (TCLP)					
Leachate Fluid[C01]		comment	1.0	1.0	1.0
pH (TCLP - HCl addition)	0.1	units	1.9	1.8	1.8
pH (TCLP - initial)	0.1	units	8.6	8.8	9.0
pH (TCLP - off)	0.1	units	5.1	5.1	6.2

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Polycyclic Aromatic Hydrocarbons	Sydney	Jan 28, 2014	7 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Metals M8	Sydney	Jan 24, 2014	28 Day
- Method: E022 Acid Extractable metals in Soils & E026 Mercury			
Heavy Metals	Sydney	Jan 24, 2014	180 Day
- Method: E022 Acid Extractable metals in Soils			
% Moisture	Sydney	Jan 24, 2014	0 Day
- Method: E005 Moisture Content			
Toxicity Characteristic Leaching Procedure (TCLP)	Sydney	Jan 24, 2014	0 Day
- Method: E019 TCLP Preparation			
Foreign Material - Type I	Sydney	Jan 23, 2014	0 Day
- Method: RTA Method T276			

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ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

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Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
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NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: ADDITIONAL: GREEN SQUARE BLOCK 5A 43182

Order No.:
Report #: 406434
Phone: 02 8245 0300
Fax:

Received: Jan 23, 2014 10:16 AM
Due: Jan 31, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Asphalt*	Lead	Polycyclic Aromatic Hydrocarbons	Toxicity Characteristic Leaching Procedure (TCLP)	Metals M8
Laboratory where analysis is conducted										
Melbourne Laboratory - NATA Site # 1254 & 14271										
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794										
External Laboratory										
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**						
FC001 0.2-0.3	Jan 13, 2014		TCLP	S14-Ja10878	X	X		X	X	X
FC002 0.8-1.0	Jan 13, 2014		TCLP	S14-Ja10879	X			X	X	
FC003 0.8-1.0	Jan 13, 2014		TCLP	S14-Ja10880	X			X	X	X
FC003 2.8-3.0	Jan 13, 2014		TCLP	S14-Ja10881	X			X	X	X
FC005 0.2-0.3	Jan 13, 2014		TCLP	S14-Ja10882	X			X	X	X
FC006 0.2-0.3	Jan 13, 2014		TCLP	S14-Ja10883	X		X		X	
FC090 0.8-1.0	Jan 13, 2014		TCLP	S14-Ja10884	X		X	X	X	

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

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Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/L	< 0.001			0.001	Pass	
Acenaphthylene	mg/L	< 0.001			0.001	Pass	
Anthracene	mg/L	< 0.001			0.001	Pass	
Benz(a)anthracene	mg/L	< 0.001			0.001	Pass	
Benzo(a)pyrene	mg/L	< 0.001			0.001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.001			0.001	Pass	
Benzo(g.h.i)perylene	mg/L	< 0.001			0.001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.001			0.001	Pass	
Chrysene	mg/L	< 0.001			0.001	Pass	
Dibenz(a.h)anthracene	mg/L	< 0.001			0.001	Pass	
Fluoranthene	mg/L	< 0.001			0.001	Pass	
Fluorene	mg/L	< 0.001			0.001	Pass	
Indeno(1.2.3-cd)pyrene	mg/L	< 0.001			0.001	Pass	
Naphthalene	mg/L	< 0.001			0.001	Pass	
Phenanthrene	mg/L	< 0.001			0.001	Pass	
Pyrene	mg/L	< 0.001			0.001	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.01			0.01	Pass	
Cadmium	mg/L	< 0.005			0.005	Pass	
Chromium	mg/L	< 0.05			0.05	Pass	
Copper	mg/L	< 0.05			0.05	Pass	
Lead	mg/L	< 0.01			0.01	Pass	
Mercury	mg/L	< 0.001			0.001	Pass	
Nickel	mg/L	< 0.05			0.05	Pass	
Zinc	mg/L	< 0.05			0.05	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S14-Ja10859	NCP	%	76			70-130	Pass	
Acenaphthylene	S14-Ja10859	NCP	%	71			70-130	Pass	
Anthracene	S14-Ja10859	NCP	%	77			70-130	Pass	
Benz(a)anthracene	S14-Ja10859	NCP	%	71			70-130	Pass	
Benzo(a)pyrene	S14-Ja10859	NCP	%	75			70-130	Pass	
Benzo(b&j)fluoranthene	S14-Ja10859	NCP	%	79			70-130	Pass	
Benzo(g.h.i)perylene	S14-Ja10859	NCP	%	75			70-130	Pass	
Benzo(k)fluoranthene	S14-Ja10859	NCP	%	73			70-130	Pass	
Chrysene	S14-Ja10859	NCP	%	72			70-130	Pass	
Dibenz(a.h)anthracene	S14-Ja10859	NCP	%	78			70-130	Pass	
Fluoranthene	S14-Ja10859	NCP	%	76			70-130	Pass	
Fluorene	S14-Ja10859	NCP	%	77			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja10859	NCP	%	77			70-130	Pass	
Naphthalene	S14-Ja10859	NCP	%	73			70-130	Pass	
Phenanthrene	S14-Ja10859	NCP	%	83			70-130	Pass	
Pyrene	S14-Ja10859	NCP	%	77			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Zinc	S14-Ja09815	NCP	%	89			70-130	Pass	
Spike - % Recovery									

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Heavy Metals				Result 1					
Arsenic	S14-Ja10881	CP	%	97			70-130	Pass	
Cadmium	S14-Ja10881	CP	%	100			70-130	Pass	
Chromium	S14-Ja10881	CP	%	94			70-130	Pass	
Copper	S14-Ja10881	CP	%	91			70-130	Pass	
Lead	S14-Ja10881	CP	%	94			70-130	Pass	
Mercury	S14-Ja10881	CP	%	101			70-130	Pass	
Nickel	S14-Ja10881	CP	%	91			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S14-Ja10858	NCP	mg/L	0.0030	0.0030	6.0	30%	Pass	
Acenaphthylene	S14-Ja10858	NCP	mg/L	0.0010	< 0.001	1.0	30%	Pass	
Anthracene	S14-Ja10858	NCP	mg/L	0.0030	0.0030	6.0	30%	Pass	
Benz(a)anthracene	S14-Ja10858	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(a)pyrene	S14-Ja10858	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(b&j)fluoranthene	S14-Ja10858	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(g.h.i)perylene	S14-Ja10858	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(k)fluoranthene	S14-Ja10858	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chrysene	S14-Ja10858	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibenz(a.h)anthracene	S14-Ja10858	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluoranthene	S14-Ja10858	NCP	mg/L	0.0050	0.0050	4.0	30%	Pass	
Fluorene	S14-Ja10858	NCP	mg/L	0.0030	0.0030	8.0	30%	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja10858	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Naphthalene	S14-Ja10858	NCP	mg/L	0.0040	0.0040	5.0	30%	Pass	
Phenanthrene	S14-Ja10858	NCP	mg/L	0.014	0.013	3.0	30%	Pass	
Pyrene	S14-Ja10858	NCP	mg/L	0.0040	0.0040	4.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S14-Ja10880	CP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Cadmium	S14-Ja10880	CP	mg/L	0.005	0.005	1.0	30%	Pass	
Chromium	S14-Ja10880	CP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Copper	S14-Ja10880	CP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Lead	S14-Ja10880	CP	mg/L	0.28	0.28	2.0	30%	Pass	
Mercury	S14-Ja10880	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Nickel	S14-Ja10880	CP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Zinc	S14-Ja10880	CP	mg/L	0.90	0.93	3.0	30%	Pass	

Comments

Coal tar analysis was performed by Envirolab Services. Report reference 104021.

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	Yes

Qualifier Codes/Comments

Code	Description
C01	Leachate Fluid Key: 1 - pH 5.0, 2 - pH 2.9, 3 - pH 9.2, 4 - Reagent (DI) water, 5 - Client sample, 6 - other
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs

Authorised By

Jean Heng	Client Services
James Norford	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)

Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

Eurofins | mgt shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins | mgt be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

Jasmine 23/01/14 10:15am

406434

From: Nathan Cussen [mailto:NCussen@jbsg.com.au]
Sent: Thursday, 23 January 2014 10:16 AM
To: Jean Heng
Subject: Lab Batch 405699 - Green Square Block 5A

Last one for now.

Could I please schedule the following TCLP analysis:

- FC001 0.2-0.3 PAH & METALS (Could I also please schedule coal tar analysis)
- FC002 0.8-1.0 PAH
- FC003 0.8-1.0 PAH & METALS
- FC003 2.8-3.0 PAH & METALS
- FC005 0.2-0.3 PAH & METALS
- FC006 0.2-0.3 LEAD
- FC090 0.8-1.0 PAH AND LEAD.

Cheers,
Nathan

Nathan Cussen | Senior Environmental Consultant| JBS&G
Sydney | Melbourne | Adelaide | Perth | Brisbane
Level 1, 50 Margaret Street, Sydney NSW 2000
T: 02 8245 0300 | M: 0431 401 022| www.jbsg.com.au
Contaminated Land | Groundwater Remediation | Auditing and Compliance | Assessments and Approvals | Occupational Hygiene and Monitoring

eurofins | mgt

ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

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3-5 Kingston Town Close
Oakleigh Vic 3166
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F6, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Sample Receipt Advice

Company name: **JBS & G (NSW & WA) Pty Ltd**

Contact name: Nathan Cussen
Client job number: GREEN SQUARE BLOCK 5A 43182
COC number: Not provided
Turn around time: 5 Day
Date/Time received: Jan 17, 2014 1:35 PM
Eurofins | mgt reference: **405943**

Sample information

☑ A detailed list of analytes logged into our LIMS, is included in the attached summary table.

☑ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt Sample Receipt : 10.5 degrees Celsius.

☑ All samples have been received as described on the above COC.

☑ COC has been completed correctly.

☑ Attempt to chill was evident.

☑ Appropriately preserved sample containers have been used.

☑ All samples were received in good condition.

☑ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.

☑ Organic samples had Teflon liners.

☒ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Notes

FC102 1.0 placed on hold due to analysis not found on COC

Contact notes

If you have any questions with respect to these samples please contact:

Jean Heng on Phone : (+61) (2) 9900 8400 or by e.mail: JeanHeng@eurofins.com.au

Results will be delivered electronically via e.mail to Nathan Cussen - ncussen@jbsg.com.au.

Eurofins | mgt Sample Receipt

eurofins | mgt

ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

Melbourne
3-5 Kingston Town Close
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NATA # 1261
Site # 1254 & 14271

Sydney
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Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: GREEN SQUARE BLOCK 5A 43182

Order No.:
Report #: 405943
Phone: 02 8245 0300
Fax:

Received: Jan 17, 2014 1:35 PM
Due: Jan 24, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Metals M8	Total Recoverable Hydrocarbons	Volatile Organics	JBS&G Suite 2
Laboratory where analysis is conducted												
Melbourne Laboratory - NATA Site # 1254 & 14271												
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794												
External Laboratory												
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**								
FC001 5.0	Jan 16, 2014		Soil	S14-Ja07754	X	X		X	X	X	X	
FC001 6.5	Jan 16, 2014		Soil	S14-Ja07755			X					
FC102 0.0	Jan 16, 2014		Soil	S14-Ja07756			X					
FC102 0.5	Jan 16, 2014		Soil	S14-Ja07757	X	X		X				X
FC102 2.0	Jan 16, 2014		Soil	S14-Ja07758	X	X		X	X	X	X	
FC102 3.0	Jan 16, 2014		Soil	S14-Ja07759			X					
FC102 4.0	Jan 16, 2014		Soil	S14-Ja07760	X	X		X	X	X	X	
FC102 5.0	Jan 16, 2014		Soil	S14-Ja07761			X					
FC102 6.5	Jan 16, 2014		Soil	S14-Ja07762	X	X		X	X	X	X	
FC102 1.0	Jan 16, 2014		Soil	S14-Ja07857			X					

eurofins | mgt

Certificate of Analysis

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Nathan Cussen**

Report **405943-S**
Client Reference GREEN SQUARE BLOCK 5A 43182
Received Date Jan 17, 2014

Client Sample ID **Sample Matrix** **Eurofins | mgt Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**FC001 5.0** **Soil** **S14-Ja07754** **Jan 16, 2014**	**FC102 0.5** **Soil** **S14-Ja07757** **Jan 16, 2014**	**FC102 2.0** **Soil** **S14-Ja07758** **Jan 16, 2014**	**FC102 4.0** **Soil** **S14-Ja07760** **Jan 16, 2014**
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	-	-
Toluene	0.1	mg/kg	-	< 0.1	-	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	-
o-Xylene	0.1	mg/kg	-	< 0.1	-	-
Xylenes - Total	0.3	mg/kg	-	< 0.3	-	-
4-Bromofluorobenzene (surr.)	1	%	-	74	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
Volatile Organics						
1.1-Dichloroethane	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
1.1-Dichloroethene	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
1.1.1-Trichloroethane	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
1.1.1.2-Tetrachloroethane	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
1.1.2-Trichloroethane	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
1.2-Dibromoethane	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
1.2-Dichlorobenzene	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
1.2-Dichloroethane	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
1.2-Dichloropropane	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
1.2.3-Trichloropropane	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
1.2.4-Trimethylbenzene	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
1.3-Dichlorobenzene	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
1.3-Dichloropropane	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC001 5.0 Soil S14-Ja07754 Jan 16, 2014	FC102 0.5 Soil S14-Ja07757 Jan 16, 2014	FC102 2.0 Soil S14-Ja07758 Jan 16, 2014	FC102 4.0 Soil S14-Ja07760 Jan 16, 2014
Volatile Organics						
1.3.5-Trimethylbenzene	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
1.4-Dichlorobenzene	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
2-Butanone (MEK)	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
4-Chlorotoluene	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
4-Methyl-2-pentanone (MIBK)	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Bromobenzene	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Bromochloromethane	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Bromodichloromethane	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Bromoform	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Bromomethane	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Carbon disulfide	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Carbon Tetrachloride	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Chlorobenzene	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Chloroethane	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Chloroform	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Chloromethane	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
cis-1.2-Dichloroethene	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
cis-1.3-Dichloropropene	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Dibromochloromethane	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Dibromomethane	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dichlorodifluoromethane	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Iodomethane	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Isopropyl benzene (Cumene)	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	< 0.2
Methylene Chloride	0.05	mg/kg	< 0.5	-	< 0.5	< 0.5
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Styrene	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Tetrachloroethene	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
trans-1.2-Dichloroethene	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
trans-1.3-Dichloropropene	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Trichloroethene	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Trichlorofluoromethane	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Vinyl chloride	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Xylenes - Total	0.3	mg/kg	< 0.3	-	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	93	-	87	91
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	-	< 0.5	-	-
Acenaphthylene	0.5	mg/kg	-	< 0.5	-	-
Anthracene	0.5	mg/kg	-	< 0.5	-	-
Benz(a)anthracene	0.5	mg/kg	-	1.0	-	-
Benzo(a)pyrene	0.5	mg/kg	-	1.3	-	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	1.4	-	-
Benzo(g.h.i)perylene	0.5	mg/kg	-	0.9	-	-
Benzo(k)fluoranthene	0.5	mg/kg	-	0.8	-	-
Chrysene	0.5	mg/kg	-	1.0	-	-
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	-	-

Client Sample ID			FC001 5.0	FC102 0.5	FC102 2.0	FC102 4.0
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**S14-Ja07754**	**S14-Ja07757**	**S14-Ja07758**	**S14-Ja07760**
Date Sampled			**Jan 16, 2014**	**Jan 16, 2014**	**Jan 16, 2014**	**Jan 16, 2014**
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Fluoranthene	0.5	mg/kg	-	1.9	-	-
Fluorene	0.5	mg/kg	-	< 0.5	-	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	0.7	-	-
Naphthalene	0.5	mg/kg	-	< 0.5	-	-
Phenanthrene	0.5	mg/kg	-	0.8	-	-
Pyrene	0.5	mg/kg	-	1.9	-	-
Total PAH	0.5	mg/kg	-	12	-	-
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	-	1.7	-	-
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	-	1.9	-	-
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	-	2.2	-	-
2-Fluorobiphenyl (surr.)	1	%	-	77	-	-
p-Terphenyl-d14 (surr.)	1	%	-	93	-	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	-
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	-
a-BHC	0.05	mg/kg	-	< 0.05	-	-
Aldrin	0.05	mg/kg	-	< 0.05	-	-
b-BHC	0.05	mg/kg	-	< 0.05	-	-
d-BHC	0.05	mg/kg	-	< 0.05	-	-
Dieldrin	0.05	mg/kg	-	< 0.05	-	-
Endosulfan I	0.05	mg/kg	-	< 0.05	-	-
Endosulfan II	0.05	mg/kg	-	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	-
Endrin	0.05	mg/kg	-	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	-
Endrin ketone	0.05	mg/kg	-	< 0.05	-	-
g-BHC (Lindane)	0.05	mg/kg	-	< 0.05	-	-
Heptachlor	0.05	mg/kg	-	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	-
Methoxychlor	0.2	mg/kg	-	< 0.2	-	-
Toxaphene	1	mg/kg	-	< 1	-	-
Dibutylchlorendate (surr.)	1	%	-	84	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	85	-	-
Polychlorinated Biphenyls (PCB)						
Aroclor-1016	0.5	mg/kg	-	< 0.5	-	-
Aroclor-1232	0.5	mg/kg	-	< 0.5	-	-
Aroclor-1242	0.5	mg/kg	-	< 0.5	-	-
Aroclor-1248	0.5	mg/kg	-	< 0.5	-	-
Aroclor-1254	0.5	mg/kg	-	< 0.5	-	-
Aroclor-1260	0.5	mg/kg	-	< 0.5	-	-
Total PCB	0.5	mg/kg	-	< 0.5	-	-
Dibutylchlorendate (surr.)	1	%	-	84	-	-
Conductivity (1:5 aqueous extract at 25°C)	5	uS/cm	52	100	91	120
pH (1:5 Aqueous extract)	0.1	units	8.0	9.0	9.1	9.0
% Moisture	0.1	%	4.3	8.0	9.9	13

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC001 5.0 Soil S14-Ja07754 Jan 16, 2014	FC102 0.5 Soil S14-Ja07757 Jan 16, 2014	FC102 2.0 Soil S14-Ja07758 Jan 16, 2014	FC102 4.0 Soil S14-Ja07760 Jan 16, 2014
Heavy Metals						
Arsenic	2	mg/kg	2.4	3.4	< 2	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	12	12	14	100
Copper	5	mg/kg	< 5	32	24	18
Lead	5	mg/kg	< 5	83	160	150
Mercury	0.05	mg/kg	< 0.05	0.40	0.28	0.19
Nickel	5	mg/kg	< 5	10	8.7	6.1
Zinc	5	mg/kg	5.3	91	74	35

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC102 6.5 Soil S14-Ja07762 Jan 16, 2014
Total Recoverable Hydrocarbons - 1999 NEPM Fractions			
TRH C6-C9	20	mg/kg	< 20
TRH C10-C14	20	mg/kg	< 20
TRH C15-C28	50	mg/kg	< 50
TRH C29-C36	50	mg/kg	< 50
TRH C10-36 (Total)	50	mg/kg	< 50
Total Recoverable Hydrocarbons - 2013 NEPM Fractions			
Naphthalene[N02]	0.5	mg/kg	< 0.5
TRH C6-C10	20	mg/kg	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20
TRH >C10-C16	50	mg/kg	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50
TRH >C16-C34	100	mg/kg	< 100
TRH >C34-C40	100	mg/kg	< 100
Volatile Organics			
1.1-Dichloroethane	0.05	mg/kg	< 0.05
1.1-Dichloroethene	0.05	mg/kg	< 0.05
1.1.1-Trichloroethane	0.05	mg/kg	< 0.05
1.1.1.2-Tetrachloroethane	0.05	mg/kg	< 0.05
1.1.2-Trichloroethane	0.05	mg/kg	< 0.05
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5
1.2-Dibromoethane	0.05	mg/kg	< 0.05
1.2-Dichlorobenzene	0.05	mg/kg	< 0.05
1.2-Dichloroethane	0.05	mg/kg	< 0.05
1.2-Dichloropropane	0.05	mg/kg	< 0.05
1.2.3-Trichloropropane	0.05	mg/kg	< 0.05
1.2.4-Trimethylbenzene	0.05	mg/kg	< 0.05
1.3-Dichlorobenzene	0.05	mg/kg	< 0.05
1.3-Dichloropropane	0.05	mg/kg	< 0.05
1.3.5-Trimethylbenzene	0.05	mg/kg	< 0.05
1.4-Dichlorobenzene	0.05	mg/kg	< 0.05
2-Butanone (MEK)	0.05	mg/kg	< 0.05
4-Chlorotoluene	0.05	mg/kg	< 0.05
4-Methyl-2-pentanone (MIBK)	0.05	mg/kg	< 0.05

Client Sample ID			FC102 6.5
Sample Matrix			**Soil**
Eurofins | mgt Sample No.			**S14-Ja07762**
Date Sampled			**Jan 16, 2014**
Test/Reference	LOR	Unit	
Volatile Organics			
Benzene	0.1	mg/kg	< 0.1
Bromobenzene	0.05	mg/kg	< 0.05
Bromochloromethane	0.05	mg/kg	< 0.05
Bromodichloromethane	0.05	mg/kg	< 0.05
Bromoform	0.05	mg/kg	< 0.05
Bromomethane	0.05	mg/kg	< 0.05
Carbon disulfide	0.05	mg/kg	< 0.05
Carbon Tetrachloride	0.05	mg/kg	< 0.05
Chlorobenzene	0.05	mg/kg	< 0.05
Chloroethane	0.05	mg/kg	< 0.05
Chloroform	0.05	mg/kg	< 0.05
Chloromethane	0.05	mg/kg	< 0.05
cis-1.2-Dichloroethene	0.05	mg/kg	< 0.05
cis-1.3-Dichloropropene	0.05	mg/kg	< 0.05
Dibromochloromethane	0.05	mg/kg	< 0.05
Dibromomethane	0.5	mg/kg	< 0.5
Dichlorodifluoromethane	0.05	mg/kg	< 0.05
Ethylbenzene	0.1	mg/kg	< 0.1
Iodomethane	0.05	mg/kg	< 0.05
Isopropyl benzene (Cumene)	0.05	mg/kg	< 0.05
m&p-Xylenes	0.2	mg/kg	< 0.2
Methylene Chloride	0.05	mg/kg	< 0.5
o-Xylene	0.1	mg/kg	< 0.1
Styrene	0.05	mg/kg	< 0.05
Tetrachloroethene	0.05	mg/kg	< 0.05
Toluene	0.1	mg/kg	< 0.1
trans-1.2-Dichloroethene	0.05	mg/kg	< 0.05
trans-1.3-Dichloropropene	0.05	mg/kg	< 0.05
Trichloroethene	0.05	mg/kg	< 0.05
Trichlorofluoromethane	0.05	mg/kg	< 0.05
Vinyl chloride	0.05	mg/kg	< 0.05
Xylenes - Total	0.3	mg/kg	< 0.3
4-Bromofluorobenzene (surr.)	1	%	90
Conductivity (1:5 aqueous extract at 25°C)	5	uS/cm	130
pH (1:5 Aqueous extract)	0.1	units	8.9
% Moisture	0.1	%	15
Heavy Metals			
Arsenic	2	mg/kg	3.6
Cadmium	0.4	mg/kg	< 0.4
Chromium	5	mg/kg	41
Copper	5	mg/kg	11
Lead	5	mg/kg	27
Mercury	0.05	mg/kg	0.10
Nickel	5	mg/kg	< 5
Zinc	5	mg/kg	29

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Jan 21, 2014	14 Day
- Method: E004 Petroleum Hydrocarbons (TPH)			
BTEX	Sydney	Jan 21, 2014	14 Day
- Method: E029/E016 BTEX			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jan 21, 2014	14 Day
- Method: LM-LTM-ORG2010			
Polycyclic Aromatic Hydrocarbons	Sydney	Jan 21, 2014	14 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Organochlorine Pesticides	Sydney	Jan 21, 2014	14 Day
- Method: E013 Organochlorine Pesticides (OC)			
Polychlorinated Biphenyls (PCB)	Sydney	Jan 21, 2014	28 Day
- Method: E013 Polychlorinated Biphenyls (PCB)			
Metals M8	Sydney	Jan 21, 2014	28 Day
- Method: E022 Acid Extractable metals in Soils & E026 Mercury			
Volatile Organics	Sydney	Jan 21, 2014	7 Day
- Method: E016 Volatile Organic Compounds (VOC)			
Conductivity (1:5 aqueous extract at 25°C)	Sydney	Jan 22, 2014	7 Day
- Method: E032.2 Electrical Conductivity (EC)			
pH (1:5 Aqueous extract)	Sydney	Jan 22, 2014	7 Day
- Method: E018.2 pH			
% Moisture	Sydney	Jan 21, 2014	28 Day
- Method: E005 Moisture Content			

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NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: GREEN SQUARE BLOCK 5A 43182

Order No.:
Report #: 405943
Phone: 02 8245 0300
Fax:

Received: Jan 17, 2014 1:35 PM
Due: Jan 24, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Metals M8	Total Recoverable Hydrocarbons	Volatile Organics	JBS&G Suite 2
Laboratory where analysis is conducted												
Melbourne Laboratory - NATA Site # 1254 & 14271												
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794												
External Laboratory												
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**								
FC001 5.0	Jan 16, 2014		Soil	S14-Ja07754	X	X		X	X	X	X	
FC001 6.5	Jan 16, 2014		Soil	S14-Ja07755			X					
FC102 0.0	Jan 16, 2014		Soil	S14-Ja07756			X					
FC102 0.5	Jan 16, 2014		Soil	S14-Ja07757	X	X		X				X
FC102 2.0	Jan 16, 2014		Soil	S14-Ja07758	X	X		X	X	X	X	
FC102 3.0	Jan 16, 2014		Soil	S14-Ja07759			X					
FC102 4.0	Jan 16, 2014		Soil	S14-Ja07760	X	X		X	X	X	X	
FC102 5.0	Jan 16, 2014		Soil	S14-Ja07761			X					
FC102 6.5	Jan 16, 2014		Soil	S14-Ja07762	X	X		X	X	X	X	
FC102 1.0	Jan 16, 2014		Soil	S14-Ja07857			X					

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH C6-C10 less BTEX (F1)	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/kg	< 0.05			0.05	Pass	
1.1-Dichloroethene	mg/kg	< 0.05			0.05	Pass	
1.1.1-Trichloroethane	mg/kg	< 0.05			0.05	Pass	
1.1.1.2-Tetrachloroethane	mg/kg	< 0.05			0.05	Pass	
1.1.2-Trichloroethane	mg/kg	< 0.05			0.05	Pass	
1.1.2.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dibromoethane	mg/kg	< 0.05			0.05	Pass	
1.2-Dichlorobenzene	mg/kg	< 0.05			0.05	Pass	
1.2-Dichloroethane	mg/kg	< 0.05			0.05	Pass	
1.2-Dichloropropane	mg/kg	< 0.05			0.05	Pass	
1.2.3-Trichloropropane	mg/kg	< 0.05			0.05	Pass	
1.2.4-Trimethylbenzene	mg/kg	< 0.05			0.05	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.05			0.05	Pass	
1.3-Dichloropropane	mg/kg	< 0.05			0.05	Pass	
1.3.5-Trimethylbenzene	mg/kg	< 0.05			0.05	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.05			0.05	Pass	
2-Butanone (MEK)	mg/kg	< 0.05			0.05	Pass	
4-Chlorotoluene	mg/kg	< 0.05			0.05	Pass	
4-Methyl-2-pentanone (MIBK)	mg/kg	< 0.05			0.05	Pass	
Bromobenzene	mg/kg	< 0.05			0.05	Pass	
Bromochloromethane	mg/kg	< 0.05			0.05	Pass	
Bromodichloromethane	mg/kg	< 0.05			0.05	Pass	
Bromoform	mg/kg	< 0.05			0.05	Pass	
Bromomethane	mg/kg	< 0.05			0.05	Pass	
Carbon disulfide	mg/kg	< 0.05			0.05	Pass	
Carbon Tetrachloride	mg/kg	< 0.05			0.05	Pass	
Chlorobenzene	mg/kg	< 0.05			0.05	Pass	
Chloroethane	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Chloroform	mg/kg	< 0.05			0.05	Pass	
Chloromethane	mg/kg	< 0.05			0.05	Pass	
cis-1.2-Dichloroethene	mg/kg	< 0.05			0.05	Pass	
cis-1.3-Dichloropropene	mg/kg	< 0.05			0.05	Pass	
Dibromochloromethane	mg/kg	< 0.05			0.05	Pass	
Dibromomethane	mg/kg	< 0.5			0.5	Pass	
Dichlorodifluoromethane	mg/kg	< 0.05			0.05	Pass	
Iodomethane	mg/kg	< 0.05			0.05	Pass	
Isopropyl benzene (Cumene)	mg/kg	< 0.05			0.05	Pass	
Methylene Chloride	mg/kg	< 0.05			0.05	Pass	
Styrene	mg/kg	< 0.05			0.05	Pass	
Tetrachloroethene	mg/kg	< 0.05			0.05	Pass	
trans-1.2-Dichloroethene	mg/kg	< 0.05			0.05	Pass	
trans-1.3-Dichloropropene	mg/kg	< 0.05			0.05	Pass	
Trichloroethene	mg/kg	< 0.05			0.05	Pass	
Trichlorofluoromethane	mg/kg	< 0.05			0.05	Pass	
Vinyl chloride	mg/kg	< 0.05			0.05	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-BHC	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-BHC	mg/kg	< 0.05			0.05	Pass	
d-BHC	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-BHC (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.2			0.2	Pass	
Toxaphene	mg/kg	< 1			1	Pass	
Method Blank							
Polychlorinated Biphenyls (PCB)							
Aroclor-1016	mg/kg	< 0.5			0.5	Pass	
Aroclor-1232	mg/kg	< 0.5			0.5	Pass	
Aroclor-1242	mg/kg	< 0.5			0.5	Pass	
Aroclor-1248	mg/kg	< 0.5			0.5	Pass	
Aroclor-1254	mg/kg	< 0.5			0.5	Pass	
Aroclor-1260	mg/kg	< 0.5			0.5	Pass	
Total PCB	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.05			0.05	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	85			70-130	Pass	
TRH C10-C14	%	79			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	93			70-130	Pass	
Toluene	%	91			70-130	Pass	
Ethylbenzene	%	90			70-130	Pass	
m&p-Xylenes	%	92			70-130	Pass	
o-Xylene	%	91			70-130	Pass	
Xylenes - Total	%	92			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	72			70-130	Pass	
TRH C6-C10	%	91			70-130	Pass	
TRH >C10-C16	%	85			70-130	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethane	%	105			75-125	Pass	
1.1-Dichloroethene	%	118			70-130	Pass	
1.1.1-Trichloroethane	%	112			70-130	Pass	
1.1.1.2-Tetrachloroethane	%	92			70-130	Pass	
1.1.2-Trichloroethane	%	88			70-130	Pass	
1.1.2.2-Tetrachloroethane	%	88			70-130	Pass	
1.2-Dibromoethane	%	90			70-130	Pass	
1.2-Dichlorobenzene	%	108			70-130	Pass	
1.2-Dichloroethane	%	93			70-130	Pass	
1.2-Dichloropropane	%	95			70-130	Pass	
1.2.3-Trichloropropane	%	105			70-130	Pass	
1.2.4-Trimethylbenzene	%	120			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
1.3-Dichlorobenzene	%	115			70-130	Pass	
1.3-Dichloropropane	%	91			70-130	Pass	
1.3.5-Trimethylbenzene	%	111			70-130	Pass	
1.4-Dichlorobenzene	%	113			70-130	Pass	
2-Butanone (MEK)	%	86			70-130	Pass	
4-Chlorotoluene	%	121			70-130	Pass	
4-Methyl-2-pentanone (MIBK)	%	79			70-130	Pass	
Bromobenzene	%	118			70-130	Pass	
Bromochloromethane	%	98			70-130	Pass	
Bromodichloromethane	%	91			70-130	Pass	
Bromoform	%	83			70-130	Pass	
Bromomethane	%	107			70-130	Pass	
Carbon disulfide	%	123			70-130	Pass	
Carbon Tetrachloride	%	114			70-130	Pass	
Chlorobenzene	%	99			70-130	Pass	
Chloroethane	%	119			70-130	Pass	
Chloroform	%	104			70-130	Pass	
Chloromethane	%	117			70-130	Pass	
cis-1.2-Dichloroethene	%	104			70-130	Pass	
cis-1.3-Dichloropropene	%	90			70-130	Pass	
Dibromochloromethane	%	88			70-130	Pass	
Dibromomethane	%	89			70-130	Pass	
Dichlorodifluoromethane	%	101			70-130	Pass	
Iodomethane	%	104			75-125	Pass	
Isopropyl benzene (Cumene)	%	106			70-130	Pass	
Methylene Chloride	%	111			70-130	Pass	
Styrene	%	98			70-130	Pass	
Tetrachloroethene	%	112			70-130	Pass	
trans-1.2-Dichloroethene	%	112			70-130	Pass	
trans-1.3-Dichloropropene	%	90			70-130	Pass	
Trichloroethene	%	106			70-130	Pass	
Trichlorofluoromethane	%	110			70-130	Pass	
Vinyl chloride	%	121			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	100			70-130	Pass	
Acenaphthylene	%	98			70-130	Pass	
Anthracene	%	116			70-130	Pass	
Benz(a)anthracene	%	105			70-130	Pass	
Benzo(a)pyrene	%	102			70-130	Pass	
Benzo(b&j)fluoranthene	%	97			70-130	Pass	
Benzo(g.h.i)perylene	%	103			70-130	Pass	
Benzo(k)fluoranthene	%	108			70-130	Pass	
Chrysene	%	104			70-130	Pass	
Dibenz(a.h)anthracene	%	103			70-130	Pass	
Fluoranthene	%	110			70-130	Pass	
Fluorene	%	99			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	102			70-130	Pass	
Naphthalene	%	98			70-130	Pass	
Phenanthrene	%	110			70-130	Pass	
Pyrene	%	105			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	87			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
4.4'-DDD	%	91			70-130	Pass	
4.4'-DDE	%	88			70-130	Pass	
4.4'-DDT	%	89			70-130	Pass	
a-BHC	%	88			70-130	Pass	
Aldrin	%	89			70-130	Pass	
b-BHC	%	94			70-130	Pass	
d-BHC	%	91			70-130	Pass	
Dieldrin	%	89			70-130	Pass	
Endosulfan I	%	89			70-130	Pass	
Endosulfan II	%	90			70-130	Pass	
Endosulfan sulphate	%	90			70-130	Pass	
Endrin	%	88			70-130	Pass	
Endrin aldehyde	%	90			70-130	Pass	
Endrin ketone	%	89			70-130	Pass	
g-BHC (Lindane)	%	89			70-130	Pass	
Heptachlor	%	86			70-130	Pass	
Heptachlor epoxide	%	88			70-130	Pass	
Hexachlorobenzene	%	76			70-130	Pass	
Methoxychlor	%	89			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls (PCB)							
Aroclor-1260	%	101			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	98			70-130	Pass	
Cadmium	%	97			70-130	Pass	
Chromium	%	102			70-130	Pass	
Copper	%	103			70-130	Pass	
Lead	%	100			70-130	Pass	
Mercury	%	78			70-130	Pass	
Nickel	%	103			70-130	Pass	
Zinc	%	102			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S14-Ja07993	NCP	%	117			70-130	Pass	
Cadmium	S14-Ja07983	NCP	%	87			70-130	Pass	
Chromium	S14-Ja07993	NCP	%	125			70-130	Pass	
Copper	S14-Ja07993	NCP	%	116			70-130	Pass	
Lead	S14-Ja07993	NCP	%	107			70-130	Pass	
Nickel	S14-Ja07993	NCP	%	106			70-130	Pass	
Zinc	S14-Ja08003	NCP	%	124			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S14-Ja08660	NCP	%	99			70-130	Pass	
Acenaphthylene	S14-Ja08660	NCP	%	100			70-130	Pass	
Anthracene	S14-Ja08660	NCP	%	117			70-130	Pass	
Benz(a)anthracene	S14-Ja08660	NCP	%	90			70-130	Pass	
Benzo(a)pyrene	S14-Ja08660	NCP	%	88			70-130	Pass	
Benzo(b&j)fluoranthene	S14-Ja08660	NCP	%	89			70-130	Pass	
Benzo(g.h.i)perylene	S14-Ja08660	NCP	%	90			70-130	Pass	
Benzo(k)fluoranthene	S14-Ja08660	NCP	%	93			70-130	Pass	
Chrysene	S14-Ja08660	NCP	%	87			70-130	Pass	
Dibenz(a.h)anthracene	S14-Ja08660	NCP	%	93			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Fluoranthene	S14-Ja08660	NCP	%	91			70-130	Pass	
Fluorene	S14-Ja08660	NCP	%	99			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja08660	NCP	%	91			70-130	Pass	
Naphthalene	S14-Ja08660	NCP	%	97			70-130	Pass	
Phenanthrene	S14-Ja08660	NCP	%	100			70-130	Pass	
Pyrene	S14-Ja08660	NCP	%	85			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S14-Ja07789	NCP	%	102			70-130	Pass	
4.4'-DDD	S14-Ja07789	NCP	%	123			70-130	Pass	
4.4'-DDT	S14-Ja07789	NCP	%	100			70-130	Pass	
a-BHC	S14-Ja07789	NCP	%	106			70-130	Pass	
Aldrin	S14-Ja07789	NCP	%	107			70-130	Pass	
b-BHC	S14-Ja07789	NCP	%	126			70-130	Pass	
d-BHC	S14-Ja07789	NCP	%	121			70-130	Pass	
Dieldrin	S14-Ja07789	NCP	%	109			70-130	Pass	
Endosulfan I	S14-Ja07789	NCP	%	104			70-130	Pass	
Endosulfan II	S14-Ja07789	NCP	%	112			70-130	Pass	
Endosulfan sulphate	S14-Ja07789	NCP	%	115			70-130	Pass	
Endrin	S14-Ja07789	NCP	%	117			70-130	Pass	
Endrin aldehyde	S14-Ja07789	NCP	%	111			70-130	Pass	
Endrin ketone	S14-Ja07789	NCP	%	127			70-130	Pass	
g-BHC (Lindane)	S14-Ja07789	NCP	%	115			70-130	Pass	
Heptachlor	S14-Ja07789	NCP	%	112			70-130	Pass	
Heptachlor epoxide	S14-Ja07789	NCP	%	119			70-130	Pass	
Hexachlorobenzene	S14-Ja07789	NCP	%	92			70-130	Pass	
Methoxychlor	S14-Ja07789	NCP	%	84			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls (PCB)				Result 1					
Aroclor-1260	S14-Ja07804	NCP	%	85			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S14-Ja07760	CP	%	86			70-130	Pass	
TRH C10-C14	S14-Ja07760	CP	%	79			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S14-Ja07760	CP	%	97			70-130	Pass	
Toluene	S14-Ja07760	CP	%	95			70-130	Pass	
Ethylbenzene	S14-Ja07760	CP	%	93			70-130	Pass	
m&p-Xylenes	S14-Ja07760	CP	%	96			70-130	Pass	
o-Xylene	S14-Ja07760	CP	%	95			70-130	Pass	
Xylenes - Total	S14-Ja07760	CP	%	95			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S14-Ja07760	CP	%	76			70-130	Pass	
TRH C6-C10	S14-Ja07760	CP	%	93			70-130	Pass	
TRH >C10-C16	S14-Ja07760	CP	%	87			70-130	Pass	
Spike - % Recovery									
Volatile Organics				Result 1					
1.1-Dichloroethane	S14-Ja07760	CP	%	96			75-125	Pass	
1.1-Dichloroethene	S14-Ja07760	CP	%	98			70-130	Pass	
1.1.1-Trichloroethane	S14-Ja07760	CP	%	100			70-130	Pass	
1.1.1.2-Tetrachloroethane	S14-Ja07760	CP	%	95			70-130	Pass	
1.1.2-Trichloroethane	S14-Ja07760	CP	%	101			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
1.1.2.2-Tetrachloroethane	S14-Ja07760	CP	%	106			70-130	Pass	
1.2-Dibromoethane	S14-Ja07760	CP	%	102			70-130	Pass	
1.2-Dichlorobenzene	S14-Ja07760	CP	%	109			70-130	Pass	
1.2-Dichloroethane	S14-Ja07760	CP	%	100			70-130	Pass	
1.2-Dichloropropane	S14-Ja07760	CP	%	98			70-130	Pass	
1.2.3-Trichloropropane	S14-Ja07760	CP	%	116			70-130	Pass	
1.2.4-Trimethylbenzene	S14-Ja07760	CP	%	112			70-130	Pass	
1.3-Dichlorobenzene	S14-Ja07760	CP	%	112			70-130	Pass	
1.3-Dichloropropane	S14-Ja07760	CP	%	104			70-130	Pass	
1.3.5-Trimethylbenzene	S14-Ja07760	CP	%	114			70-130	Pass	
1.4-Dichlorobenzene	S14-Ja07760	CP	%	112			70-130	Pass	
2-Butanone (MEK)	S14-Ja07760	CP	%	99			70-130	Pass	
4-Chlorotoluene	S14-Ja07760	CP	%	114			70-130	Pass	
4-Methyl-2-pentanone (MIBK)	S14-Ja07760	CP	%	97			70-130	Pass	
Bromobenzene	S14-Ja07760	CP	%	114			70-130	Pass	
Bromochloromethane	S14-Ja07760	CP	%	97			70-130	Pass	
Bromodichloromethane	S14-Ja07760	CP	%	96			70-130	Pass	
Bromoform	S14-Ja07760	CP	%	87			70-130	Pass	
Bromomethane	S14-Ja07760	CP	%	92			70-130	Pass	
Carbon disulfide	S14-Ja07760	CP	%	84			70-130	Pass	
Carbon Tetrachloride	S14-Ja07760	CP	%	98			70-130	Pass	
Chlorobenzene	S14-Ja07760	CP	%	99			70-130	Pass	
Chloroethane	S14-Ja07760	CP	%	99			70-130	Pass	
Chloroform	S14-Ja07760	CP	%	101			70-130	Pass	
Chloromethane	S14-Ja07760	CP	%	86			70-130	Pass	
cis-1.2-Dichloroethene	S14-Ja07760	CP	%	99			70-130	Pass	
cis-1.3-Dichloropropene	S14-Ja07760	CP	%	93			70-130	Pass	
Dibromochloromethane	S14-Ja07760	CP	%	94			70-130	Pass	
Dibromomethane	S14-Ja07760	CP	%	100			70-130	Pass	
Dichlorodifluoromethane	S14-Ja07760	CP	%	91			70-130	Pass	
Iodomethane	S14-Ja07760	CP	%	92			75-125	Pass	
Isopropyl benzene (Cumene)	S14-Ja07760	CP	%	102			70-130	Pass	
Methylene Chloride	S14-Ja07760	CP	%	108			70-130	Pass	
Styrene	S14-Ja07760	CP	%	101			70-130	Pass	
Tetrachloroethene	S14-Ja07760	CP	%	106			70-130	Pass	
trans-1.2-Dichloroethene	S14-Ja07760	CP	%	95			70-130	Pass	
trans-1.3-Dichloropropene	S14-Ja07760	CP	%	93			70-130	Pass	
Trichloroethene	S14-Ja07760	CP	%	100			70-130	Pass	
Trichlorofluoromethane	S14-Ja07760	CP	%	97			70-130	Pass	
Vinyl chloride	S14-Ja07760	CP	%	104			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Mercury	S14-Ja07760	CP	%	73			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
				Result 1	Result 2	RPD			
Conductivity (1:5 aqueous extract at 25°C)	S14-Ja06470	NCP	uS/cm	680	680	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S14-Ja07993	NCP	mg/kg	3.3	2.3	39	30%	Fail	Q15
Cadmium	S14-Ja07993	NCP	mg/kg	29	28	4.0	30%	Pass	
Chromium	S14-Ja07993	NCP	mg/kg	8.7	8.6	1.0	30%	Pass	
Copper	S14-Ja07993	NCP	mg/kg	< 5	< 5	<1	30%	Pass	

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Lead	S14-Ja07993	NCP	mg/kg	9.3	7.9	16	30%	Pass	
Nickel	S14-Ja07993	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
Zinc	S14-Ja07804	NCP	mg/kg	750	660	13	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S14-Ja08660	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S14-Ja08660	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S14-Ja08660	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S14-Ja08660	NCP	mg/kg	0.70	< 0.5	41	30%	Fail	Q15
Benzo(a)pyrene	S14-Ja08660	NCP	mg/kg	0.70	< 0.5	36	30%	Fail	Q15
Benzo(b&j)fluoranthene	S14-Ja08660	NCP	mg/kg	0.70	0.50	29	30%	Pass	
Benzo(g.h.i)perylene	S14-Ja08660	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S14-Ja08660	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S14-Ja08660	NCP	mg/kg	0.70	< 0.5	44	30%	Fail	Q15
Dibenz(a.h)anthracene	S14-Ja08660	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S14-Ja08660	NCP	mg/kg	2.2	1.4	44	30%	Fail	Q15
Fluorene	S14-Ja08660	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja08660	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S14-Ja08660	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S14-Ja08660	NCP	mg/kg	1.1	0.80	37	30%	Fail	Q15
Pyrene	S14-Ja08660	NCP	mg/kg	1.9	1.2	45	30%	Fail	Q15
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S14-Ja07789	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S14-Ja07789	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S14-Ja07789	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S14-Ja07789	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	S14-Ja07789	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S14-Ja07789	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	S14-Ja07789	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-BHC	S14-Ja07789	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S14-Ja07789	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S14-Ja07789	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S14-Ja07789	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S14-Ja07789	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S14-Ja07789	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S14-Ja07789	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S14-Ja07789	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	S14-Ja07789	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S14-Ja07789	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S14-Ja07789	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S14-Ja07789	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S14-Ja07789	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Toxaphene	S14-Ja07789	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls (PCB)				Result 1	Result 2	RPD			
Aroclor-1016	S14-Ja07789	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1232	S14-Ja07789	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1242	S14-Ja07789	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1248	S14-Ja07789	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1254	S14-Ja07789	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1260	S14-Ja07789	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S14-Ja07760	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S14-Ja07760	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S14-Ja07760	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S14-Ja07760	CP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S14-Ja07760	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S14-Ja07760	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S14-Ja07760	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S14-Ja07760	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S14-Ja07760	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total	S14-Ja07760	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S14-Ja07760	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S14-Ja07760	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S14-Ja07760	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S14-Ja07760	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S14-Ja07760	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S14-Ja07760	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	S14-Ja07760	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.1-Dichloroethene	S14-Ja07760	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.1.1-Trichloroethane	S14-Ja07760	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	S14-Ja07760	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.1.2-Trichloroethane	S14-Ja07760	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	S14-Ja07760	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromoethane	S14-Ja07760	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.2-Dichlorobenzene	S14-Ja07760	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.2-Dichloroethane	S14-Ja07760	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.2-Dichloropropane	S14-Ja07760	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.2.3-Trichloropropane	S14-Ja07760	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.2.4-Trimethylbenzene	S14-Ja07760	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.3-Dichlorobenzene	S14-Ja07760	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.3-Dichloropropane	S14-Ja07760	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.3.5-Trimethylbenzene	S14-Ja07760	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.4-Dichlorobenzene	S14-Ja07760	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
2-Butanone (MEK)	S14-Ja07760	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4-Chlorotoluene	S14-Ja07760	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	S14-Ja07760	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Bromobenzene	S14-Ja07760	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Bromochloromethane	S14-Ja07760	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Bromodichloromethane	S14-Ja07760	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Bromoform	S14-Ja07760	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Bromomethane	S14-Ja07760	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Carbon disulfide	S14-Ja07760	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Carbon Tetrachloride	S14-Ja07760	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Chlorobenzene	S14-Ja07760	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Chloroethane	S14-Ja07760	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Chloroform	S14-Ja07760	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Chloromethane	S14-Ja07760	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
cis-1.2-Dichloroethene	S14-Ja07760	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
cis-1.3-Dichloropropene	S14-Ja07760	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	

Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
Dibromochloromethane	S14-Ja07760	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dibromomethane	S14-Ja07760	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorodifluoromethane	S14-Ja07760	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Iodomethane	S14-Ja07760	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Isopropyl benzene (Cumene)	S14-Ja07760	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methylene Chloride	S14-Ja07760	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Styrene	S14-Ja07760	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Tetrachloroethene	S14-Ja07760	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
trans-1.2-Dichloroethene	S14-Ja07760	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
trans-1.3-Dichloropropene	S14-Ja07760	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Trichloroethene	S14-Ja07760	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Trichlorofluoromethane	S14-Ja07760	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Vinyl chloride	S14-Ja07760	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Mercury	S14-Ja07760	CP	mg/kg	0.19	0.13	34	30%	Fail	Q15

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q15	The RPD reported passes Eurofins | mgt's Acceptance Criteria as stipulated in SOP 05. Refer to Glossary Page of this report for further details

Authorised By

Jean Heng	Client Services
Bob Symons	Senior Analyst-Inorganic (NSW)
James Norford	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)
Ryan Hamilton	Senior Analyst-Volatile (NSW)

Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

Eurofins | mgt shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins | mgt be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

eurofins | mgt
Unit F3-F6 Building F, Parkview Building
16 Mars Road, Lane Cove West
NSW 2066

Page 1 of 1

CHAIN OF CUSTODY

#ISO 405943

JBS&G

PROJECT NO.: 43192
PROJECT NAME: Green Square Block 59
SEND REPORT TO: N Cunneen SEND INVOICE TO: G NJ
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: T Crosbie
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: ncunneen@jbsg.com.au
QC LEVEL: NEPM (2013)

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	JB1	JB1T	JB1A	JB2	JB2A	B10	JB2/JBL	JB3/JBL	JB4	JBL	8 Metals	TRH	PAH	VOCs	pH	EC	NOTES:
FC001 0.0	Soil	16.1.14		Jar + Ice												Y	Y		X	Y	Y	
FC001 0.5																						
FC102 0.0																						
FC102 0.5									X											X	X	
FC102 1.0																						
FC102 2.0																Y	Y	Y		Y	Y	
FC102 3.0																						
FC102 4.0																Y	Y	Y		Y	Y	
FC102 5.0																						
FC102 6.5																Y	Y	Y		Y	Y	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY.
NAME: Nathan DATE: 17 01 14	CONSIGNMENT NOTE NO.	NAME: Ellen Ng 17/01/14	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: OF: EPTmgt 1335	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - eurofins mgt

JB1 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1T - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos
JB2 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
B10 - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2/JBL - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)
JB3/JBL - TRH/BTEX/PAH/OCP/OPP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)/Asbestos
JB4 - TRH/BTEX/VOC
JBL - TCLP(PAH & 6 Metals)

10.5 17/1/14 1-35PM

eurofins | mgt

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Sample Receipt Advice

Company name: **JBS & G (NSW & WA) Pty Ltd**

Contact name: Nathan Cussen
Client job number: GREEN SQUARE BLOCK 5A 43182
COC number: Not provided
Turn around time: 5 Day
Date/Time received: Jan 15, 2014 3:45 PM
Eurofins | mgt reference: **405699**

Sample information

☑ A detailed list of analytes logged into our LIMS, is included in the attached summary table.

☑ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt Sample Receipt : 11 degrees Celsius.

☒ All samples have been received as described on the above COC.

☑ COC has been completed correctly.

☑ Attempt to chill was evident.

☑ Appropriately preserved sample containers have been used.

☑ All samples were received in good condition.

☑ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.

☑ Organic samples had Teflon liners.

☒ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Notes

Samples FC004 0.2-0.3, FC004 0.8-1.0, FC004 1.5-1.7 and FC004 2.8-3.0 received 17/01/14

Contact notes

If you have any questions with respect to these samples please contact:

Jean Heng on Phone : (+61) (2) 9900 8400 or by e.mail: JeanHeng@eurofins.com.au

Results will be delivered electronically via e.mail to Nathan Cussen - ncussen@jbsg.com.au.

Eurofins | mgt Sample Receipt

eurofins | mgt

Certificate of Analysis

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025.
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Nathan Cussen**

Report **405699-S**
Client Reference GREEN SQUARE BLOCK 5A 43182
Received Date Jan 15, 2014

Client Sample ID **Sample Matrix** **Eurofins | mgt Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**FC001 0.2-0.3** **Soil** **S14-Ja05665** **Jan 13, 2014**	**FC001 1.5-1.7** **Soil** **S14-Ja05667** **Jan 13, 2014**	**FC002 0.8-1.0** **Soil** **S14-Ja05669** **Jan 13, 2014**	**FC002 2.8-3.0** **Soil** **S14-Ja05670** **Jan 13, 2014**
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	38	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	1200	< 50	78	< 50
TRH C29-C36	50	mg/kg	780	< 50	75	< 50
TRH C10-36 (Total)	50	mg/kg	2000	< 50	150	< 50
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	-	< 0.1
Toluene	0.1	mg/kg	-	< 0.1	-	< 0.1
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	< 0.1
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	< 0.2
o-Xylene	0.1	mg/kg	-	< 0.1	-	< 0.1
Xylenes - Total	0.3	mg/kg	-	< 0.3	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	93	-	90
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	100	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	100	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	1800	< 100	130	< 100
TRH >C34-C40	100	mg/kg	560	< 100	130	< 100
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	7.4	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	1.9	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	16	< 0.5	0.8	< 0.5
Benz(a)anthracene	0.5	mg/kg	23	< 0.5	3.9	< 0.5
Benzo(a)pyrene	0.5	mg/kg	21	< 0.5	4.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	14	< 0.5	3.0	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	11	< 0.5	2.2	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	20	< 0.5	5.0	< 0.5
Chrysene	0.5	mg/kg	20	< 0.5	3.8	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	3.9	< 0.5	0.7	< 0.5
Fluoranthene	0.5	mg/kg	37	< 0.5	5.1	< 0.5
Fluorene	0.5	mg/kg	7.2	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	11	< 0.5	2.3	< 0.5
Naphthalene	0.5	mg/kg	5.6	< 0.5	< 0.5	< 0.5

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC001 0.2-0.3 Soil S14-Ja05665 Jan 13, 2014	FC001 1.5-1.7 Soil S14-Ja05667 Jan 13, 2014	FC002 0.8-1.0 Soil S14-Ja05669 Jan 13, 2014	FC002 2.8-3.0 Soil S14-Ja05670 Jan 13, 2014
Polycyclic Aromatic Hydrocarbons						
Phenanthrene	0.5	mg/kg	42	< 0.5	1.2	< 0.5
Pyrene	0.5	mg/kg	36	< 0.5	5.0	< 0.5
Total PAH	0.5	mg/kg	280	< 0.5	38	< 0.5
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	32	< 0.5	6.8	< 0.5
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	32	0.6	6.8	0.6
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	32	1.2	6.8	1.2
2-Fluorobiphenyl (surr.)	1	%	93	95	92	97
p-Terphenyl-d14 (surr.)	1	%	100	96	93	99
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	< 0.05
a-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
Aldrin	0.05	mg/kg	-	< 0.05	-	< 0.05
b-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
d-BHC	0.05	mg/kg	-	< 0.05	-	< 0.05
Dieldrin	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan I	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan II	0.05	mg/kg	-	< 0.05	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	< 0.05
Endrin ketone	0.05	mg/kg	-	< 0.05	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	< 0.05	-	< 0.05
Heptachlor	0.05	mg/kg	-	< 0.05	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	< 0.05
Methoxychlor	0.2	mg/kg	-	< 0.2	-	< 0.2
Toxaphene	1	mg/kg	-	< 1	-	< 1
Dibutylchlorendate (surr.)	1	%	-	103	-	92
Tetrachloro-m-xylene (surr.)	1	%	-	97	-	88
Polychlorinated Biphenyls (PCB)						
Aroclor-1016	0.5	mg/kg	-	< 0.5	-	< 0.5
Aroclor-1232	0.5	mg/kg	-	< 0.5	-	< 0.5
Aroclor-1242	0.5	mg/kg	-	< 0.5	-	< 0.5
Aroclor-1248	0.5	mg/kg	-	< 0.5	-	< 0.5
Aroclor-1254	0.5	mg/kg	-	< 0.5	-	< 0.5
Aroclor-1260	0.5	mg/kg	-	< 0.5	-	< 0.5
Total PCB	0.5	mg/kg	-	< 0.5	-	< 0.5
Dibutylchlorendate (surr.)	1	%	-	103	-	92
Conductivity (1:5 aqueous extract at 25°C)	5	uS/cm	130	120	130	150
pH (1:5 Aqueous extract)	0.1	units	9.6	8.4	8.7	8.7
% Moisture	0.1	%	9.7	10	9.1	8.9
Initial Weight	0.01	kg	-	-	-	7.8

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC001 0.2-0.3 Soil S14-Ja05665 Jan 13, 2014	FC001 1.5-1.7 Soil S14-Ja05667 Jan 13, 2014	FC002 0.8-1.0 Soil S14-Ja05669 Jan 13, 2014	FC002 2.8-3.0 Soil S14-Ja05670 Jan 13, 2014
Heavy Metals						
Arsenic	2	mg/kg	3.8	15	5.4	10
Cadmium	0.4	mg/kg	0.5	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	5.7	17	6.0	6.5
Copper	5	mg/kg	74	15	110	12
Lead	5	mg/kg	170	61	130	41
Mercury	0.05	mg/kg	0.33	0.06	0.81	< 0.05
Nickel	5	mg/kg	6.5	< 5	7.9	11
Zinc	5	mg/kg	180	7.2	160	82
Foreign Material - Type I						
Metal*	0.1	%	-	-	-	< 0.1
Glass*	0.1	%	-	-	-	< 0.1
Asphalt*	0.1	%	-	-	-	< 0.1
Stone*	0.1	%	-	-	-	10.0
Ceramic and slag (other than blast furnace slag)*	0.1	%	-	-	-	< 0.1
Foreign Material - Type II						
Plaster*	0.1	%	-	-	-	< 0.1
Clay lumps and other friable material*	0.1	%	-	-	-	2.5
Foreign Material - Type III						
Rubber*	0.05	%	-	-	-	< 0.05
Plastic*	0.05	%	-	-	-	< 0.05
Bitumen*	0.05	%	-	-	-	< 0.05
Paper*	0.05	%	-	-	-	< 0.05
Cloth*	0.05	%	-	-	-	< 0.05
Paint*	0.05	%	-	-	-	< 0.05
Wood and other vegetable matter*	0.05	%	-	-	-	< 0.05

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC003 0.2-0.3 Soil S14-Ja05672 Jan 13, 2014	FC003 0.8-1.0 Soil S14-Ja05673 Jan 13, 2014	FC003 2.8-3.0 Soil S14-Ja05675 Jan 13, 2014	FC004 0.2-0.3 Soil S14-Ja05677 Jan 13, 2014
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	150	390	60
TRH C29-C36	50	mg/kg	< 50	130	210	< 50
TRH C10-36 (Total)	50	mg/kg	< 50	280	600	60
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	-	-
Toluene	0.1	mg/kg	< 0.1	-	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	-
o-Xylene	0.1	mg/kg	< 0.1	-	-	-
Xylenes - Total	0.3	mg/kg	< 0.3	-	-	-
4-Bromofluorobenzene (surr.)	1	%	102	-	-	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC003 0.2-0.3 Soil S14-Ja05672 Jan 13, 2014	FC003 0.8-1.0 Soil S14-Ja05673 Jan 13, 2014	FC003 2.8-3.0 Soil S14-Ja05675 Jan 13, 2014	FC004 0.2-0.3 Soil S14-Ja05677 Jan 13, 2014
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	250	570	< 100
TRH >C34-C40	100	mg/kg	< 100	120	160	< 100
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	0.7	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	0.8	0.9	0.5
Anthracene	0.5	mg/kg	< 0.5	1.7	6.1	1.0
Benz(a)anthracene	0.5	mg/kg	0.7	6.4	13	2.8
Benzo(a)pyrene	0.5	mg/kg	0.8	7.2	11	3.0
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	0.7	5.8	10	2.3
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	3.8	5.6	1.5
Benzo(k)fluoranthene	0.5	mg/kg	0.9	7.4	11	3.0
Chrysene	0.5	mg/kg	0.6	5.9	11	2.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	1.1	1.7	< 0.5
Fluoranthene	0.5	mg/kg	1.0	8.9	23	4.2
Fluorene	0.5	mg/kg	< 0.5	< 0.5	0.6	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	3.6	5.3	1.4
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	0.7	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	3.1	21	1.8
Pyrene	0.5	mg/kg	1.0	8.6	21	4.1
Total PAH	0.5	mg/kg	5.7	64	140	28
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	1.0	11	17	4.0
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	1.3	11	17	4.3
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	1.6	11	17	4.5
2-Fluorobiphenyl (surr.)	1	%	97	98	101	95
p-Terphenyl-d14 (surr.)	1	%	98	102	112	98
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	-
4.4'-DDD	0.05	mg/kg	< 0.05	-	-	-
4.4'-DDE	0.05	mg/kg	< 0.05	-	-	-
4.4'-DDT	0.05	mg/kg	< 0.05	-	-	-
a-BHC	0.05	mg/kg	< 0.05	-	-	-
Aldrin	0.05	mg/kg	< 0.05	-	-	-
b-BHC	0.05	mg/kg	< 0.05	-	-	-
d-BHC	0.05	mg/kg	< 0.05	-	-	-
Dieldrin	0.05	mg/kg	< 0.05	-	-	-
Endosulfan I	0.05	mg/kg	< 0.05	-	-	-
Endosulfan II	0.05	mg/kg	< 0.05	-	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	-
Endrin	0.05	mg/kg	< 0.05	-	-	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	-
Endrin ketone	0.05	mg/kg	< 0.05	-	-	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	-	-
Heptachlor	0.05	mg/kg	< 0.05	-	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC003 0.2-0.3 Soil S14-Ja05672 Jan 13, 2014	FC003 0.8-1.0 Soil S14-Ja05673 Jan 13, 2014	FC003 2.8-3.0 Soil S14-Ja05675 Jan 13, 2014	FC004 0.2-0.3 Soil S14-Ja05677 Jan 13, 2014
Organochlorine Pesticides						
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	-
Methoxychlor	0.2	mg/kg	< 0.2	-	-	-
Toxaphene	1	mg/kg	< 1	-	-	-
Dibutylchlorendate (surr.)	1	%	99	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	83	-	-	-
Polychlorinated Biphenyls (PCB)						
Aroclor-1016	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1232	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1242	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1248	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1254	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1260	0.5	mg/kg	< 0.5	-	-	-
Total PCB	0.5	mg/kg	< 0.5	-	-	-
Dibutylchlorendate (surr.)	1	%	99	-	-	-
Conductivity (1:5 aqueous extract at 25°C)	5	uS/cm	93	100	-	150
pH (1:5 Aqueous extract)	0.1	units	9.2	9.0	-	8.9
% Moisture	0.1	%	5.6	5.6	6.9	9.5
Heavy Metals						
Arsenic	2	mg/kg	3.8	8.0	15	8.8
Cadmium	0.4	mg/kg	< 0.4	0.4	0.7	< 0.4
Chromium	5	mg/kg	18	22	5.8	7.7
Copper	5	mg/kg	46	97	64	48
Lead	5	mg/kg	120	170	230	94
Mercury	0.05	mg/kg	0.16	0.34	0.40	0.17
Nickel	5	mg/kg	17	27	6.9	7.7
Zinc	5	mg/kg	140	200	740	100

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC004 1.5-1.7 Soil S14-Ja05679 Jan 13, 2014	FC005 0.2-0.3 Soil S14-Ja05681 Jan 13, 2014	FC005 2.0-2.2 Soil S14-Ja05683 Jan 13, 2014	FC006 0.2-0.3 Soil S14-Ja05685 Jan 13, 2014
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	150	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	130	< 50	58
TRH C10-36 (Total)	50	mg/kg	< 50	280	< 50	58
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Xylenes - Total	0.3	mg/kg	< 0.3	< 0.3	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	102	122	-	91

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC004 1.5-1.7 Soil S14-Ja05679 Jan 13, 2014	FC005 0.2-0.3 Soil S14-Ja05681 Jan 13, 2014	FC005 2.0-2.2 Soil S14-Ja05683 Jan 13, 2014	FC006 0.2-0.3 Soil S14-Ja05685 Jan 13, 2014
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	250	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	120	< 100	130
Volatile Organics						
1.1-Dichloroethane	0.05	mg/kg	-	< 0.05	-	-
1.1-Dichloroethene	0.05	mg/kg	-	< 0.05	-	-
1.1.1-Trichloroethane	0.05	mg/kg	-	< 0.05	-	-
1.1.1.2-Tetrachloroethane	0.05	mg/kg	-	< 0.05	-	-
1.1.2-Trichloroethane	0.05	mg/kg	-	< 0.05	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dibromoethane	0.05	mg/kg	-	< 0.05	-	-
1.2-Dichlorobenzene	0.05	mg/kg	-	< 0.05	-	-
1.2-Dichloroethane	0.05	mg/kg	-	< 0.05	-	-
1.2-Dichloropropane	0.05	mg/kg	-	< 0.05	-	-
1.2.3-Trichloropropane	0.05	mg/kg	-	< 0.05	-	-
1.2.4-Trimethylbenzene	0.05	mg/kg	-	< 0.05	-	-
1.3-Dichlorobenzene	0.05	mg/kg	-	< 0.05	-	-
1.3-Dichloropropane	0.05	mg/kg	-	< 0.05	-	-
1.3.5-Trimethylbenzene	0.05	mg/kg	-	< 0.05	-	-
1.4-Dichlorobenzene	0.05	mg/kg	-	< 0.05	-	-
2-Butanone (MEK)	0.05	mg/kg	-	< 0.05	-	-
4-Chlorotoluene	0.05	mg/kg	-	< 0.05	-	-
4-Methyl-2-pentanone (MIBK)	0.05	mg/kg	-	< 0.05	-	-
Benzene	0.1	mg/kg	-	< 0.1	-	-
Bromobenzene	0.05	mg/kg	-	< 0.05	-	-
Bromochloromethane	0.05	mg/kg	-	< 0.05	-	-
Bromodichloromethane	0.05	mg/kg	-	< 0.05	-	-
Bromoform	0.05	mg/kg	-	< 0.05	-	-
Bromomethane	0.05	mg/kg	-	< 0.05	-	-
Carbon disulfide	0.05	mg/kg	-	< 0.05	-	-
Carbon Tetrachloride	0.05	mg/kg	-	< 0.05	-	-
Chlorobenzene	0.05	mg/kg	-	< 0.05	-	-
Chloroethane	0.05	mg/kg	-	< 0.05	-	-
Chloroform	0.05	mg/kg	-	< 0.05	-	-
Chloromethane	0.05	mg/kg	-	< 0.05	-	-
cis-1.2-Dichloroethene	0.05	mg/kg	-	< 0.05	-	-
cis-1.3-Dichloropropene	0.05	mg/kg	-	< 0.05	-	-
Dibromochloromethane	0.05	mg/kg	-	< 0.05	-	-
Dibromomethane	0.5	mg/kg	-	< 0.5	-	-
Dichlorodifluoromethane	0.05	mg/kg	-	< 0.05	-	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	-
Iodomethane	0.05	mg/kg	-	< 0.05	-	-
Isopropyl benzene (Cumene)	0.05	mg/kg	-	< 0.05	-	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	-
Methylene Chloride	0.05	mg/kg	-	< 0.05	-	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC004 1.5-1.7 Soil S14-Ja05679 Jan 13, 2014	FC005 0.2-0.3 Soil S14-Ja05681 Jan 13, 2014	FC005 2.0-2.2 Soil S14-Ja05683 Jan 13, 2014	FC006 0.2-0.3 Soil S14-Ja05685 Jan 13, 2014
Volatile Organics						
o-Xylene	0.1	mg/kg	-	< 0.1	-	-
Styrene	0.05	mg/kg	-	< 0.05	-	-
Tetrachloroethene	0.05	mg/kg	-	< 0.05	-	-
Toluene	0.1	mg/kg	-	< 0.1	-	-
trans-1.2-Dichloroethene	0.05	mg/kg	-	< 0.05	-	-
trans-1.3-Dichloropropene	0.05	mg/kg	-	< 0.05	-	-
Trichloroethene	0.05	mg/kg	-	< 0.05	-	-
Trichlorofluoromethane	0.05	mg/kg	-	< 0.05	-	-
Vinyl chloride	0.05	mg/kg	-	< 0.05	-	-
Xylenes - Total	0.3	mg/kg	-	< 0.3	-	-
4-Bromofluorobenzene (surr.)	1	%	-	122	-	-
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	1.0	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	2.0	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	0.9	5.8	0.5	0.7
Benzo(a)pyrene	0.5	mg/kg	1.0	6.5	0.7	0.8
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	0.6	3.4	< 0.5	0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	3.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	1.0	6.1	0.7	0.9
Chrysene	0.5	mg/kg	0.9	5.6	0.6	0.7
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	1.1	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	1.6	9.6	0.8	1.1
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	3.3	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	0.7	5.0	< 0.5	< 0.5
Pyrene	0.5	mg/kg	1.5	9.8	0.9	1.1
Total PAH	0.5	mg/kg	8.2	63	4.2	5.8
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	1.2	9.5	0.8	1.0
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	1.5	9.5	1.1	1.3
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	1.8	9.5	1.4	1.6
2-Fluorobiphenyl (surr.)	1	%	98	95	98	102
p-Terphenyl-d14 (surr.)	1	%	97	102	98	101
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
a-BHC	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
b-BHC	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
d-BHC	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC004 1.5-1.7 Soil S14-Ja05679 Jan 13, 2014	FC005 0.2-0.3 Soil S14-Ja05681 Jan 13, 2014	FC005 2.0-2.2 Soil S14-Ja05683 Jan 13, 2014	FC006 0.2-0.3 Soil S14-Ja05685 Jan 13, 2014
Organochlorine Pesticides						
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Methoxychlor	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Toxaphene	1	mg/kg	< 1	< 1	-	< 1
Dibutylchlorendate (surr.)	1	%	96	84	-	92
Tetrachloro-m-xylene (surr.)	1	%	85	79	-	76
Polychlorinated Biphenyls (PCB)						
Aroclor-1016	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Aroclor-1232	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Aroclor-1242	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Aroclor-1248	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Aroclor-1254	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Aroclor-1260	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Total PCB	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Dibutylchlorendate (surr.)	1	%	96	84	-	92
Conductivity (1:5 aqueous extract at 25°C)	5	uS/cm	200	170	83	93
pH (1:5 Aqueous extract)	0.1	units	8.4	8.6	8.2	8.9
% Moisture	0.1	%	13	10	18	7.3
Heavy Metals						
Arsenic	2	mg/kg	3.9	6.2	5.5	7.8
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	0.5
Chromium	5	mg/kg	6.4	33	7.9	20
Copper	5	mg/kg	28	78	16	82
Lead	5	mg/kg	46	230	29	260
Mercury	0.05	mg/kg	0.27	0.46	0.41	0.19
Nickel	5	mg/kg	5.2	5.7	< 5	20
Zinc	5	mg/kg	61	170	44	350

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC006 0.8-1.0 Soil S14-Ja05686 Jan 13, 2014	QC09 Soil S14-Ja05689 Jan 13, 2014	QC10 Soil S14-Ja05690 Jan 13, 2014	FC090 0.8-1.0 Soil S14-Ja05692 Jan 14, 2014
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	79	< 50	66	540
TRH C29-C36	50	mg/kg	66	64	78	710
TRH C10-36 (Total)	50	mg/kg	150	64	140	1300
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	< 0.1	-
Toluene	0.1	mg/kg	-	< 0.1	< 0.1	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	< 0.1	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	< 0.2	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC006 0.8-1.0 Soil S14-Ja05686 Jan 13, 2014	QC09 Soil S14-Ja05689 Jan 13, 2014	QC10 Soil S14-Ja05690 Jan 13, 2014	FC090 0.8-1.0 Soil S14-Ja05692 Jan 14, 2014
BTEX						
o-Xylene	0.1	mg/kg	-	< 0.1	< 0.1	-
Xylenes - Total	0.3	mg/kg	-	< 0.3	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	-	95	123	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	1.1
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	140	< 100	130	1200
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	420
Volatile Organics						
1.1-Dichloroethane	0.05	mg/kg	< 0.05	-	< 0.05	-
1.1-Dichloroethene	0.05	mg/kg	< 0.05	-	< 0.05	-
1.1.1-Trichloroethane	0.05	mg/kg	< 0.05	-	< 0.05	-
1.1.1.2-Tetrachloroethane	0.05	mg/kg	< 0.05	-	< 0.05	-
1.1.2-Trichloroethane	0.05	mg/kg	< 0.05	-	< 0.05	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	< 0.5	-
1.2-Dibromoethane	0.05	mg/kg	< 0.05	-	< 0.05	-
1.2-Dichlorobenzene	0.05	mg/kg	< 0.05	-	< 0.05	-
1.2-Dichloroethane	0.05	mg/kg	< 0.05	-	< 0.05	-
1.2-Dichloropropane	0.05	mg/kg	< 0.05	-	< 0.05	-
1.2.3-Trichloropropane	0.05	mg/kg	< 0.05	-	< 0.05	-
1.2.4-Trimethylbenzene	0.05	mg/kg	< 0.05	-	< 0.05	-
1.3-Dichlorobenzene	0.05	mg/kg	< 0.05	-	< 0.05	-
1.3-Dichloropropane	0.05	mg/kg	< 0.05	-	< 0.05	-
1.3.5-Trimethylbenzene	0.05	mg/kg	< 0.05	-	< 0.05	-
1.4-Dichlorobenzene	0.05	mg/kg	< 0.05	-	< 0.05	-
2-Butanone (MEK)	0.05	mg/kg	< 0.05	-	< 0.05	-
4-Chlorotoluene	0.05	mg/kg	< 0.05	-	< 0.05	-
4-Methyl-2-pentanone (MIBK)	0.05	mg/kg	< 0.05	-	< 0.05	-
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	-
Bromobenzene	0.05	mg/kg	< 0.05	-	< 0.05	-
Bromochloromethane	0.05	mg/kg	< 0.05	-	< 0.05	-
Bromodichloromethane	0.05	mg/kg	< 0.05	-	< 0.05	-
Bromoform	0.05	mg/kg	< 0.05	-	< 0.05	-
Bromomethane	0.05	mg/kg	< 0.05	-	< 0.05	-
Carbon disulfide	0.05	mg/kg	< 0.05	-	< 0.05	-
Carbon Tetrachloride	0.05	mg/kg	< 0.05	-	< 0.05	-
Chlorobenzene	0.05	mg/kg	< 0.05	-	< 0.05	-
Chloroethane	0.05	mg/kg	< 0.05	-	< 0.05	-
Chloroform	0.05	mg/kg	< 0.05	-	< 0.05	-
Chloromethane	0.05	mg/kg	< 0.05	-	< 0.05	-
cis-1.2-Dichloroethene	0.05	mg/kg	< 0.05	-	< 0.05	-
cis-1.3-Dichloropropene	0.05	mg/kg	< 0.05	-	< 0.05	-
Dibromochloromethane	0.05	mg/kg	< 0.05	-	< 0.05	-
Dibromomethane	0.5	mg/kg	< 0.5	-	< 0.5	-
Dichlorodifluoromethane	0.05	mg/kg	< 0.05	-	< 0.05	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC006 0.8-1.0 Soil S14-Ja05686 Jan 13, 2014	QC09 Soil S14-Ja05689 Jan 13, 2014	QC10 Soil S14-Ja05690 Jan 13, 2014	FC090 0.8-1.0 Soil S14-Ja05692 Jan 14, 2014
Volatile Organics						
Iodomethane	0.05	mg/kg	< 0.05	-	< 0.05	-
Isopropyl benzene (Cumene)	0.05	mg/kg	< 0.05	-	< 0.05	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	-
Methylene Chloride	0.05	mg/kg	< 0.5	-	< 0.05	-
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	-
Styrene	0.05	mg/kg	< 0.05	-	< 0.05	-
Tetrachloroethene	0.05	mg/kg	< 0.05	-	< 0.05	-
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	-
trans-1.2-Dichloroethene	0.05	mg/kg	< 0.05	-	< 0.05	-
trans-1.3-Dichloropropene	0.05	mg/kg	< 0.05	-	< 0.05	-
Trichloroethene	0.05	mg/kg	< 0.05	-	< 0.05	-
Trichlorofluoromethane	0.05	mg/kg	< 0.05	-	< 0.05	-
Vinyl chloride	0.05	mg/kg	< 0.05	-	< 0.05	-
Xylenes - Total	0.3	mg/kg	< 0.3	-	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	123	-	123	-
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	-	< 0.5	< 0.5	1.5
Anthracene	0.5	mg/kg	-	< 0.5	0.6	3.0
Benz(a)anthracene	0.5	mg/kg	-	0.7	2.5	8.2
Benzo(a)pyrene	0.5	mg/kg	-	0.8	3.0	12
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	0.6	2.2	5.8
Benzo(g.h.i)perylene	0.5	mg/kg	-	0.6	1.6	7.2
Benzo(k)fluoranthene	0.5	mg/kg	-	0.9	3.2	12
Chrysene	0.5	mg/kg	-	0.7	2.5	7.9
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	2.1
Fluoranthene	0.5	mg/kg	-	1.2	3.8	11
Fluorene	0.5	mg/kg	-	< 0.5	< 0.5	0.8
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	0.5	1.7	7.0
Naphthalene	0.5	mg/kg	-	< 0.5	< 0.5	0.7
Phenanthrene	0.5	mg/kg	-	< 0.5	1.0	5.7
Pyrene	0.5	mg/kg	-	1.1	3.8	12
Total PAH	0.5	mg/kg	-	7.1	26	97
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	-	1.1	4.0	17
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	-	1.4	4.3	17
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	-	1.6	4.5	17
2-Fluorobiphenyl (surr.)	1	%	-	95	94	99
p-Terphenyl-d14 (surr.)	1	%	-	93	94	103
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	< 0.1	-
4.4'-DDD	0.05	mg/kg	-	< 0.05	< 0.05	-
4.4'-DDE	0.05	mg/kg	-	< 0.05	< 0.05	-
4.4'-DDT	0.05	mg/kg	-	< 0.05	< 0.05	-
a-BHC	0.05	mg/kg	-	< 0.05	< 0.05	-
Aldrin	0.05	mg/kg	-	< 0.05	< 0.05	-
b-BHC	0.05	mg/kg	-	< 0.05	< 0.05	-
d-BHC	0.05	mg/kg	-	< 0.05	< 0.05	-
Dieldrin	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan I	0.05	mg/kg	-	< 0.05	< 0.05	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC006 0.8-1.0 Soil S14-Ja05686 Jan 13, 2014	QC09 Soil S14-Ja05689 Jan 13, 2014	QC10 Soil S14-Ja05690 Jan 13, 2014	FC090 0.8-1.0 Soil S14-Ja05692 Jan 14, 2014
Organochlorine Pesticides						
Endosulfan II	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin ketone	0.05	mg/kg	-	< 0.05	< 0.05	-
g-BHC (Lindane)	0.05	mg/kg	-	< 0.05	< 0.05	-
Heptachlor	0.05	mg/kg	-	< 0.05	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	< 0.05	-
Methoxychlor	0.2	mg/kg	-	< 0.2	< 0.2	-
Toxaphene	1	mg/kg	-	< 1	< 1	-
Dibutylchlorendate (surr.)	1	%	-	87	100	-
Tetrachloro-m-xylene (surr.)	1	%	-	80	76	-
Polychlorinated Biphenyls (PCB)						
Aroclor-1016	0.5	mg/kg	-	< 0.5	< 0.5	-
Aroclor-1232	0.5	mg/kg	-	< 0.5	< 0.5	-
Aroclor-1242	0.5	mg/kg	-	< 0.5	< 0.5	-
Aroclor-1248	0.5	mg/kg	-	< 0.5	< 0.5	-
Aroclor-1254	0.5	mg/kg	-	< 0.5	< 0.5	-
Aroclor-1260	0.5	mg/kg	-	< 0.5	< 0.5	-
Total PCB	0.5	mg/kg	-	< 0.5	< 0.5	-
Dibutylchlorendate (surr.)	1	%	-	87	100	-
Conductivity (1:5 aqueous extract at 25°C)	5	uS/cm	95	-	-	180
pH (1:5 Aqueous extract)	0.1	units	8.8	-	-	8.7
% Moisture	0.1	%	11	4.6	12	6.1
Heavy Metals						
Arsenic	2	mg/kg	3.7	2.6	5.3	6.0
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	13	11	< 5
Copper	5	mg/kg	80	44	98	72
Lead	5	mg/kg	100	97	210	190
Mercury	0.05	mg/kg	0.35	0.15	0.38	0.17
Nickel	5	mg/kg	< 5	12	7.4	9.2
Zinc	5	mg/kg	95	110	150	72

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC090 2.8-3.0 Soil S14-Ja05694 Jan 14, 2014	FC090 6.3-6.5 Soil S14-Ja05696 Jan 14, 2014
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				
TRH C6-C9	20	mg/kg	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50
TRH C10-36 (Total)	50	mg/kg	< 50	< 50

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC090 2.8-3.0 Soil S14-Ja05694 Jan 14, 2014	FC090 6.3-6.5 Soil S14-Ja05696 Jan 14, 2014
BTEX				
Benzene	0.1	mg/kg	< 0.1	-
Toluene	0.1	mg/kg	< 0.1	-
Ethylbenzene	0.1	mg/kg	< 0.1	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-
o-Xylene	0.1	mg/kg	< 0.1	-
Xylenes - Total	0.3	mg/kg	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	90	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5
Total PAH	0.5	mg/kg	< 0.5	< 0.5
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	0.6	0.6
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	1.2	1.2
2-Fluorobiphenyl (surr.)	1	%	90	97
p-Terphenyl-d14 (surr.)	1	%	93	98
Organochlorine Pesticides				
Chlordanes - Total	0.1	mg/kg	< 0.1	-
4.4'-DDD	0.05	mg/kg	< 0.05	-
4.4'-DDE	0.05	mg/kg	< 0.05	-
4.4'-DDT	0.05	mg/kg	< 0.05	-
a-BHC	0.05	mg/kg	< 0.05	-
Aldrin	0.05	mg/kg	< 0.05	-
b-BHC	0.05	mg/kg	< 0.05	-
d-BHC	0.05	mg/kg	< 0.05	-
Dieldrin	0.05	mg/kg	< 0.05	-
Endosulfan I	0.05	mg/kg	< 0.05	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC090 2.8-3.0 Soil S14-Ja05694 Jan 14, 2014	FC090 6.3-6.5 Soil S14-Ja05696 Jan 14, 2014
Organochlorine Pesticides				
Endosulfan II	0.05	mg/kg	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-
Endrin	0.05	mg/kg	< 0.05	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-
Endrin ketone	0.05	mg/kg	< 0.05	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-
Heptachlor	0.05	mg/kg	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-
Methoxychlor	0.2	mg/kg	< 0.2	-
Toxaphene	1	mg/kg	< 1	-
Dibutylchlorendate (surr.)	1	%	95	-
Tetrachloro-m-xylene (surr.)	1	%	92	-
Polychlorinated Biphenyls (PCB)				
Aroclor-1016	0.5	mg/kg	< 0.5	-
Aroclor-1232	0.5	mg/kg	< 0.5	-
Aroclor-1242	0.5	mg/kg	< 0.5	-
Aroclor-1248	0.5	mg/kg	< 0.5	-
Aroclor-1254	0.5	mg/kg	< 0.5	-
Aroclor-1260	0.5	mg/kg	< 0.5	-
Total PCB	0.5	mg/kg	< 0.5	-
Dibutylchlorendate (surr.)	1	%	95	-
Conductivity (1:5 aqueous extract at 25°C)	5	uS/cm	120	120
pH (1:5 Aqueous extract)	0.1	units	9.1	9.1
% Moisture	0.1	%	10	6.1
Initial Weight	0.01	kg	7.4	-
Heavy Metals				
Arsenic	2	mg/kg	3.1	5.9
Cadmium	0.4	mg/kg	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	6.8
Copper	5	mg/kg	7.3	12
Lead	5	mg/kg	14	19
Mercury	0.05	mg/kg	0.44	0.90
Nickel	5	mg/kg	< 5	10
Zinc	5	mg/kg	23	54
Foreign Material - Type I				
Metal*	0.1	%	< 0.1	-
Glass*	0.1	%	< 0.1	-
Asphalt*	0.1	%	0.2	-
Stone*	0.1	%	4.1	-
Ceramic and slag (other than blast furnace slag)*	0.1	%	< 0.1	-
Foreign Material - Type II				
Plaster*	0.1	%	< 0.1	-
Clay lumps and other friable material*	0.1	%	1.2	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	FC090 2.8-3.0 Soil S14-Ja05694 Jan 14, 2014	FC090 6.3-6.5 Soil S14-Ja05696 Jan 14, 2014
Foreign Material - Type III				
Rubber*	0.05	%	< 0.05	-
Plastic*	0.05	%	< 0.05	-
Bitumen*	0.05	%	< 0.05	-
Paper*	0.05	%	< 0.05	-
Cloth*	0.05	%	< 0.05	-
Paint*	0.05	%	< 0.05	-
Wood and other vegetable matter*	0.05	%	< 0.05	-

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Jan 22, 2014	14 Day
- Method: E004 Petroleum Hydrocarbons (TPH)			
BTEX	Sydney	Jan 22, 2014	14 Day
- Method: E029/E016 BTEX			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jan 22, 2014	14 Day
- Method: LM-LTM-ORG2010			
Polycyclic Aromatic Hydrocarbons	Sydney	Jan 21, 2014	14 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Organochlorine Pesticides	Sydney	Jan 21, 2014	14 Day
- Method: E013 Organochlorine Pesticides (OC)			
Polychlorinated Biphenyls (PCB)	Sydney	Jan 21, 2014	28 Day
- Method: E013 Polychlorinated Biphenyls (PCB)			
Metals M8	Sydney	Jan 20, 2014	28 Day
- Method: E022 Acid Extractable metals in Soils & E026 Mercury			
Volatile Organics	Sydney	Jan 22, 2014	7 Day
- Method: E016 Volatile Organic Compounds (VOC)			
Conductivity (1:5 aqueous extract at 25°C)	Sydney	Jan 21, 2014	7 Day
- Method: E032.2 Electrical Conductivity (EC)			
pH (1:5 Aqueous extract)	Sydney	Jan 21, 2014	7 Day
- Method: E018.2 pH			
% Moisture	Sydney	Jan 20, 2014	28 Day
- Method: E005 Moisture Content			
Foreign Material - Type I	Sydney	Jan 16, 2014	180 Day
- Method: RTA Method T276			
Foreign Material - Type II	Sydney	Jan 16, 2014	180 Day
- Method: RTA Method T276			
Foreign Material - Type III	Sydney	Jan 16, 2014	180 Day
- Method: RTA Method T276			

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NATA # 1261 Site # 18217

Brisbane
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Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: GREEN SQUARE BLOCK 5A 43182

Order No.:
Report #: 405699
Phone: 02 8245 0300
Fax:

Received: Jan 15, 2014 3:45 PM
Due: Jan 22, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	Total Recoverable Hydrocarbons	Foreign Materials - ENM	Volatile Organics	JBS&G Suite 2
Laboratory where analysis is conducted														
Melbourne Laboratory - NATA Site # 1254 & 14271														
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
External Laboratory														
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**										
FC001 0.2-0.3	Jan 13, 2014		Soil	S14-Ja05665	X	X		X	X	X	X			
FC001 0.8-1.0	Jan 13, 2014		Soil	S14-Ja05666			X							
FC001 1.5-1.7	Jan 13, 2014		Soil	S14-Ja05667	X	X		X						X
FC002 0.2-0.3	Jan 13, 2014		Soil	S14-Ja05668			X							
FC002 0.8-1.0	Jan 13, 2014		Soil	S14-Ja05669	X	X		X	X	X	X			
FC002 2.8-3.0	Jan 13, 2014		Soil	S14-Ja05670	X	X		X				X		X
FC002 4.8-5.0	Jan 13, 2014		Soil	S14-Ja05671			X							
FC003 0.2-0.3	Jan 13, 2014		Soil	S14-Ja05672	X	X		X						X
FC003 0.8-1.0	Jan 13, 2014		Soil	S14-Ja05673	X	X		X	X	X	X			
FC003 1.8-2.0	Jan 13, 2014		Soil	S14-Ja05674			X							

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Laboratory where analysis is conducted														
Melbourne Laboratory - NATA Site # 1254 & 14271														
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
External Laboratory														
FC003 2.8-3.0	Jan 13, 2014		Soil	S14-Ja05675	X				X	X	X			
FC003 3.5-3.7	Jan 13, 2014		Soil	S14-Ja05676			X							
FC004 0.2-0.3	Jan 13, 2014		Soil	S14-Ja05677	X	X		X	X	X	X			
FC004 0.8-1.0	Jan 13, 2014		Soil	S14-Ja05678			X							
FC004 1.5-1.7	Jan 13, 2014		Soil	S14-Ja05679	X	X		X						X
FC004 2.8-3.0	Jan 13, 2014		Soil	S14-Ja05680			X							
FC005 0.2-0.3	Jan 13, 2014		Soil	S14-Ja05681	X	X		X					X	X
FC005 1.3-1.5	Jan 13, 2014		Soil	S14-Ja05682			X							
FC005 2.0-2.2	Jan 13, 2014		Soil	S14-Ja05683	X	X		X	X	X	X			
FC005 2.5-2.7	Jan 13, 2014		Soil	S14-Ja05684			X							
FC006 0.2-0.3	Jan 13, 2014		Soil	S14-Ja05685	X	X		X						X

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Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	Total Recoverable Hydrocarbons	Foreign Materials - ENM	Volatile Organics	JBS&G Suite 2
Laboratory where analysis is conducted														
Melbourne Laboratory - NATA Site # 1254 & 14271														
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
External Laboratory														
FC006 0.8-1.0	Jan 13, 2014		Soil	S14-Ja05686	X	X		X		X	X		X	
FC006 1.3-1.5	Jan 13, 2014		Soil	S14-Ja05687			X							
FC006 2.0-2.2	Jan 13, 2014		Soil	S14-Ja05688			X							
QC09	Jan 13, 2014		Soil	S14-Ja05689	X									X
QC10	Jan 13, 2014		Soil	S14-Ja05690	X								X	X
FC090 0.2-0.3	Jan 14, 2014		Soil	S14-Ja05691			X							
FC090 0.8-1.0	Jan 14, 2014		Soil	S14-Ja05692	X	X		X	X	X	X			
FC090 1.3-1.5	Jan 14, 2014		Soil	S14-Ja05693			X							
FC090 2.8-3.0	Jan 14, 2014		Soil	S14-Ja05694	X	X		X				X		X
FC090 4.8-5.0	Jan 14, 2014		Soil	S14-Ja05695			X							
FC090 6.3-6.5	Jan 14, 2014		Soil	S14-Ja05696	X	X		X	X	X	X			

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Company Name: JBS & G (NSW & WA) Pty Ltd
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Client Job No.: GREEN SQUARE BLOCK 5A 43182

Order No.:
Report #: 405699
Phone: 02 8245 0300
Fax:

Received: Jan 15, 2014 3:45 PM
Due: Jan 22, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	Total Recoverable Hydrocarbons	Foreign Materials - ENM	Volatile Organics	JBS&G Suite 2
Laboratory where analysis is conducted														
Melbourne Laboratory - NATA Site # 1254 & 14271														
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
External Laboratory														
FC002 1.8-2.0	Jan 14, 2014		Soil	S14-Ja05697			X							

Eurofins | mgt Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

UNITS

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Units

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%.

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxophene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH C6-C10 less BTEX (F1)	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/kg	< 0.05			0.05	Pass	
1.1-Dichloroethene	mg/kg	< 0.05			0.05	Pass	
1.1.1-Trichloroethane	mg/kg	< 0.05			0.05	Pass	
1.1.1.2-Tetrachloroethane	mg/kg	< 0.05			0.05	Pass	
1.1.2-Trichloroethane	mg/kg	< 0.05			0.05	Pass	
1.1.2.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dibromoethane	mg/kg	< 0.05			0.05	Pass	
1.2-Dichlorobenzene	mg/kg	< 0.05			0.05	Pass	
1.2-Dichloroethane	mg/kg	< 0.05			0.05	Pass	
1.2-Dichloropropane	mg/kg	< 0.05			0.05	Pass	
1.2.3-Trichloropropane	mg/kg	< 0.05			0.05	Pass	
1.2.4-Trimethylbenzene	mg/kg	< 0.05			0.05	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.05			0.05	Pass	
1.3-Dichloropropane	mg/kg	< 0.05			0.05	Pass	
1.3.5-Trimethylbenzene	mg/kg	< 0.05			0.05	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.05			0.05	Pass	
2-Butanone (MEK)	mg/kg	< 0.05			0.05	Pass	
4-Chlorotoluene	mg/kg	< 0.05			0.05	Pass	
4-Methyl-2-pentanone (MIBK)	mg/kg	< 0.05			0.05	Pass	
Benzene	mg/kg	< 0.1			0.1	Pass	
Bromobenzene	mg/kg	< 0.05			0.05	Pass	
Bromochloromethane	mg/kg	< 0.05			0.05	Pass	
Bromodichloromethane	mg/kg	< 0.05			0.05	Pass	
Bromoform	mg/kg	< 0.05			0.05	Pass	
Bromomethane	mg/kg	< 0.05			0.05	Pass	
Carbon disulfide	mg/kg	< 0.05			0.05	Pass	
Carbon Tetrachloride	mg/kg	< 0.05			0.05	Pass	
Chlorobenzene	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Chloroethane	mg/kg	< 0.05			0.05	Pass	
Chloroform	mg/kg	< 0.05			0.05	Pass	
Chloromethane	mg/kg	< 0.05			0.05	Pass	
cis-1.2-Dichloroethene	mg/kg	< 0.05			0.05	Pass	
cis-1.3-Dichloropropene	mg/kg	< 0.05			0.05	Pass	
Dibromochloromethane	mg/kg	< 0.05			0.05	Pass	
Dibromomethane	mg/kg	< 0.5			0.5	Pass	
Dichlorodifluoromethane	mg/kg	< 0.05			0.05	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
Iodomethane	mg/kg	< 0.05			0.05	Pass	
Isopropyl benzene (Cumene)	mg/kg	< 0.05			0.05	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
Methylene Chloride	mg/kg	< 0.05			0.05	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Styrene	mg/kg	< 0.05			0.05	Pass	
Tetrachloroethene	mg/kg	< 0.05			0.05	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
trans-1.2-Dichloroethene	mg/kg	< 0.05			0.05	Pass	
trans-1.3-Dichloropropene	mg/kg	< 0.05			0.05	Pass	
Trichloroethene	mg/kg	< 0.05			0.05	Pass	
Trichlorofluoromethane	mg/kg	< 0.05			0.05	Pass	
Vinyl chloride	mg/kg	< 0.05			0.05	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-BHC	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-BHC	mg/kg	< 0.05			0.05	Pass	
d-BHC	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-BHC (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.2			0.2	Pass	
Toxaphene	mg/kg	< 1			1	Pass	
Method Blank							
Polychlorinated Biphenyls (PCB)							
Aroclor-1016	mg/kg	< 0.5			0.5	Pass	
Aroclor-1232	mg/kg	< 0.5			0.5	Pass	
Aroclor-1242	mg/kg	< 0.5			0.5	Pass	
Aroclor-1248	mg/kg	< 0.5			0.5	Pass	
Aroclor-1254	mg/kg	< 0.5			0.5	Pass	
Aroclor-1260	mg/kg	< 0.5			0.5	Pass	
Total PCB	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.05			0.05	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	103			70-130	Pass	
TRH C10-C14	%	76			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	98			70-130	Pass	
Toluene	%	102			70-130	Pass	
Ethylbenzene	%	106			70-130	Pass	
m&p-Xylenes	%	106			70-130	Pass	
o-Xylene	%	103			70-130	Pass	
Xylenes - Total	%	97			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	91			70-130	Pass	
TRH C6-C10	%	95			70-130	Pass	
TRH >C10-C16	%	79			70-130	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethane	%	100			75-125	Pass	
1.1-Dichloroethene	%	106			70-130	Pass	
1.1.1-Trichloroethane	%	107			70-130	Pass	
1.1.1.2-Tetrachloroethane	%	93			70-130	Pass	
1.1.2-Trichloroethane	%	87			70-130	Pass	
1.1.2.2-Tetrachloroethane	%	91			70-130	Pass	
1.2-Dibromoethane	%	88			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
1.2-Dichlorobenzene	%	107			70-130	Pass	
1.2-Dichloroethane	%	89			70-130	Pass	
1.2-Dichloropropane	%	93			70-130	Pass	
1.2.3-Trichloropropane	%	104			70-130	Pass	
1.2.4-Trimethylbenzene	%	119			70-130	Pass	
1.3-Dichlorobenzene	%	113			70-130	Pass	
1.3-Dichloropropane	%	90			70-130	Pass	
1.3.5-Trimethylbenzene	%	120			70-130	Pass	
1.4-Dichlorobenzene	%	112			70-130	Pass	
2-Butanone (MEK)	%	81			70-130	Pass	
4-Chlorotoluene	%	120			70-130	Pass	
4-Methyl-2-pentanone (MIBK)	%	79			70-130	Pass	
Benzene	%	98			70-130	Pass	
Bromobenzene	%	116			70-130	Pass	
Bromochloromethane	%	95			70-130	Pass	
Bromodichloromethane	%	89			70-130	Pass	
Bromoform	%	83			70-130	Pass	
Bromomethane	%	95			70-130	Pass	
Carbon disulfide	%	100			70-130	Pass	
Carbon Tetrachloride	%	107			70-130	Pass	
Chlorobenzene	%	99			70-130	Pass	
Chloroethane	%	105			70-130	Pass	
Chloroform	%	101			70-130	Pass	
Chloromethane	%	112			70-130	Pass	
cis-1.2-Dichloroethene	%	100			70-130	Pass	
cis-1.3-Dichloropropene	%	87			70-130	Pass	
Dibromochloromethane	%	86			70-130	Pass	
Dibromomethane	%	93			70-130	Pass	
Dichlorodifluoromethane	%	103			70-130	Pass	
Ethylbenzene	%	91			70-130	Pass	
Iodomethane	%	92			75-125	Pass	
Isopropyl benzene (Cumene)	%	108			70-130	Pass	
m&p-Xylenes	%	98			70-130	Pass	
Methylene Chloride	%	102			70-130	Pass	
o-Xylene	%	95			70-130	Pass	
Styrene	%	99			70-130	Pass	
Tetrachloroethene	%	104			70-130	Pass	
Toluene	%	93			70-130	Pass	
trans-1.2-Dichloroethene	%	100			70-130	Pass	
trans-1.3-Dichloropropene	%	87			70-130	Pass	
Trichloroethene	%	98			70-130	Pass	
Trichlorofluoromethane	%	104			70-130	Pass	
Vinyl chloride	%	115			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	120			70-130	Pass	
Acenaphthylene	%	115			70-130	Pass	
Anthracene	%	118			70-130	Pass	
Benz(a)anthracene	%	116			70-130	Pass	
Benzo(a)pyrene	%	116			70-130	Pass	
Benzo(b&j)fluoranthene	%	109			70-130	Pass	
Benzo(g.h.i)perylene	%	96			70-130	Pass	
Benzo(k)fluoranthene	%	123			70-130	Pass	
Chrysene	%	123			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Dibenz(a.h)anthracene	%	111			70-130	Pass	
Fluoranthene	%	115			70-130	Pass	
Fluorene	%	123			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	109			70-130	Pass	
Naphthalene	%	116			70-130	Pass	
Phenanthrene	%	110			70-130	Pass	
Pyrene	%	112			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	88			70-130	Pass	
4.4'-DDD	%	91			70-130	Pass	
4.4'-DDE	%	89			70-130	Pass	
4.4'-DDT	%	91			70-130	Pass	
a-BHC	%	88			70-130	Pass	
Aldrin	%	90			70-130	Pass	
b-BHC	%	94			70-130	Pass	
d-BHC	%	89			70-130	Pass	
Dieldrin	%	90			70-130	Pass	
Endosulfan I	%	91			70-130	Pass	
Endosulfan II	%	93			70-130	Pass	
Endosulfan sulphate	%	95			70-130	Pass	
Endrin	%	89			70-130	Pass	
Endrin aldehyde	%	95			70-130	Pass	
Endrin ketone	%	94			70-130	Pass	
g-BHC (Lindane)	%	88			70-130	Pass	
Heptachlor	%	85			70-130	Pass	
Heptachlor epoxide	%	88			70-130	Pass	
Hexachlorobenzene	%	74			70-130	Pass	
Methoxychlor	%	95			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	84			70-130	Pass	
Cadmium	%	83			70-130	Pass	
Chromium	%	94			70-130	Pass	
Copper	%	94			70-130	Pass	
Lead	%	101			70-130	Pass	
Mercury	%	107			70-130	Pass	
Nickel	%	97			70-130	Pass	
Zinc	%	101			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S14-Ja05665	CP	%	114			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S14-Ja05665	CP	%	98			70-130	Pass	
Toluene	S14-Ja05665	CP	%	95			70-130	Pass	
Ethylbenzene	S14-Ja05665	CP	%	92			70-130	Pass	
m&p-Xylenes	S14-Ja05665	CP	%	97			70-130	Pass	
o-Xylene	S14-Ja05665	CP	%	95			70-130	Pass	
Xylenes - Total	S14-Ja05665	CP	%	96			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S14-Ja05665	CP	%	107			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
TRH C6-C10	S14-Ja05665	CP	%	113			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S14-Ja04160	NCP	%	91			70-130	Pass	
Cadmium	S14-Ja04160	NCP	%	102			70-130	Pass	
Chromium	S14-Ja04160	NCP	%	91			70-130	Pass	
Copper	S14-Ja06158	NCP	%	115			70-130	Pass	
Lead	S14-Ja04160	NCP	%	78			70-130	Pass	
Mercury	S14-Ja04206	NCP	%	107			70-130	Pass	
Nickel	S14-Ja04160	NCP	%	76			70-130	Pass	
Zinc	S14-Ja04160	NCP	%	94			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S14-Ja05667	CP	%	98			70-130	Pass	
4.4'-DDD	S14-Ja05667	CP	%	105			70-130	Pass	
4.4'-DDE	S14-Ja05667	CP	%	98			70-130	Pass	
4.4'-DDT	S14-Ja05667	CP	%	95			70-130	Pass	
a-BHC	S14-Ja05667	CP	%	97			70-130	Pass	
Aldrin	S14-Ja05667	CP	%	97			70-130	Pass	
b-BHC	S14-Ja05667	CP	%	103			70-130	Pass	
d-BHC	S14-Ja05667	CP	%	99			70-130	Pass	
Dieldrin	S14-Ja05667	CP	%	99			70-130	Pass	
Endosulfan I	S14-Ja05667	CP	%	100			70-130	Pass	
Endosulfan II	S14-Ja05667	CP	%	100			70-130	Pass	
Endosulfan sulphate	S14-Ja05667	CP	%	102			70-130	Pass	
Endrin	S14-Ja05667	CP	%	97			70-130	Pass	
Endrin aldehyde	S14-Ja05667	CP	%	102			70-130	Pass	
Endrin ketone	S14-Ja05667	CP	%	101			70-130	Pass	
g-BHC (Lindane)	S14-Ja05667	CP	%	96			70-130	Pass	
Heptachlor	S14-Ja05667	CP	%	95			70-130	Pass	
Heptachlor epoxide	S14-Ja05667	CP	%	97			70-130	Pass	
Hexachlorobenzene	S14-Ja05667	CP	%	80			70-130	Pass	
Methoxychlor	S14-Ja05667	CP	%	98			70-130	Pass	
Spike - % Recovery									
Volatile Organics				Result 1					
1.1-Dichloroethane	S14-Ja07760	NCP	%	96			75-125	Pass	
1.1-Dichloroethene	S14-Ja07760	NCP	%	98			70-130	Pass	
1.1.1-Trichloroethane	S14-Ja07760	NCP	%	100			70-130	Pass	
1.1.1.2-Tetrachloroethane	S14-Ja07760	NCP	%	95			70-130	Pass	
1.1.2-Trichloroethane	S14-Ja07760	NCP	%	101			70-130	Pass	
1.1.2.2-Tetrachloroethane	S14-Ja07760	NCP	%	106			70-130	Pass	
1.2-Dibromoethane	S14-Ja07760	NCP	%	102			70-130	Pass	
1.2-Dichlorobenzene	S14-Ja07760	NCP	%	109			70-130	Pass	
1.2-Dichloroethane	S14-Ja07760	NCP	%	100			70-130	Pass	
1.2-Dichloropropane	S14-Ja07760	NCP	%	98			70-130	Pass	
1.2.3-Trichloropropane	S14-Ja07760	NCP	%	116			70-130	Pass	
1.2.4-Trimethylbenzene	S14-Ja07760	NCP	%	112			70-130	Pass	
1.3-Dichlorobenzene	S14-Ja07760	NCP	%	112			70-130	Pass	
1.3-Dichloropropane	S14-Ja07760	NCP	%	104			70-130	Pass	
1.3.5-Trimethylbenzene	S14-Ja07760	NCP	%	114			70-130	Pass	
1.4-Dichlorobenzene	S14-Ja07760	NCP	%	112			70-130	Pass	
2-Butanone (MEK)	S14-Ja07760	NCP	%	99			70-130	Pass	
4-Chlorotoluene	S14-Ja07760	NCP	%	114			70-130	Pass	
4-Methyl-2-pentanone (MIBK)	S14-Ja07760	NCP	%	97			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Bromobenzene	S14-Ja07760	NCP	%	114			70-130	Pass	
Bromochloromethane	S14-Ja07760	NCP	%	97			70-130	Pass	
Bromodichloromethane	S14-Ja07760	NCP	%	96			70-130	Pass	
Bromoform	S14-Ja07760	NCP	%	87			70-130	Pass	
Bromomethane	S14-Ja07760	NCP	%	92			70-130	Pass	
Carbon disulfide	S14-Ja07760	NCP	%	84			70-130	Pass	
Carbon Tetrachloride	S14-Ja07760	NCP	%	98			70-130	Pass	
Chlorobenzene	S14-Ja07760	NCP	%	99			70-130	Pass	
Chloroethane	S14-Ja07760	NCP	%	99			70-130	Pass	
Chloroform	S14-Ja07760	NCP	%	101			70-130	Pass	
Chloromethane	S14-Ja07760	NCP	%	86			70-130	Pass	
cis-1.2-Dichloroethene	S14-Ja07760	NCP	%	99			70-130	Pass	
cis-1.3-Dichloropropene	S14-Ja07760	NCP	%	93			70-130	Pass	
Dibromochloromethane	S14-Ja07760	NCP	%	94			70-130	Pass	
Dibromomethane	S14-Ja07760	NCP	%	100			70-130	Pass	
Dichlorodifluoromethane	S14-Ja07760	NCP	%	91			70-130	Pass	
Iodomethane	S14-Ja07760	NCP	%	92			75-125	Pass	
Isopropyl benzene (Cumene)	S14-Ja07760	NCP	%	102			70-130	Pass	
Methylene Chloride	S14-Ja07760	NCP	%	108			70-130	Pass	
Styrene	S14-Ja07760	NCP	%	101			70-130	Pass	
Tetrachloroethene	S14-Ja07760	NCP	%	106			70-130	Pass	
trans-1.2-Dichloroethene	S14-Ja07760	NCP	%	95			70-130	Pass	
trans-1.3-Dichloropropene	S14-Ja07760	NCP	%	93			70-130	Pass	
Trichloroethene	S14-Ja07760	NCP	%	100			70-130	Pass	
Trichlorofluoromethane	S14-Ja07760	NCP	%	97			70-130	Pass	
Vinyl chloride	S14-Ja07760	NCP	%	104			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S14-Ja05683	CP	%	92			70-130	Pass	
TRH C10-C14	S14-Ja05683	CP	%	75			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S14-Ja05683	CP	%	90			70-130	Pass	
Toluene	S14-Ja05683	CP	%	83			70-130	Pass	
Ethylbenzene	S14-Ja05683	CP	%	80			70-130	Pass	
m&p-Xylenes	S14-Ja05683	CP	%	86			70-130	Pass	
o-Xylene	S14-Ja05683	CP	%	84			70-130	Pass	
Xylenes - Total	S14-Ja05683	CP	%	85			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S14-Ja05683	CP	%	81			70-130	Pass	
TRH C6-C10	S14-Ja05683	CP	%	86			70-130	Pass	
TRH >C10-C16	S14-Ja05683	CP	%	82			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S14-Ja05683	CP	%	125			70-130	Pass	
Acenaphthylene	S14-Ja05683	CP	%	123			70-130	Pass	
Anthracene	S14-Ja05683	CP	%	122			70-130	Pass	
Benz(a)anthracene	S14-Ja05683	CP	%	123			70-130	Pass	
Benzo(a)pyrene	S14-Ja05683	CP	%	112			70-130	Pass	
Benzo(b&j)fluoranthene	S14-Ja05683	CP	%	94			70-130	Pass	
Benzo(g.h.i)perylene	S14-Ja05683	CP	%	89			70-130	Pass	
Benzo(k)fluoranthene	S14-Ja05683	CP	%	107			70-130	Pass	
Chrysene	S14-Ja05683	CP	%	123			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Dibenz(a.h)anthracene	S14-Ja05683	CP	%	115			70-130	Pass	
Fluoranthene	S14-Ja05683	CP	%	117			70-130	Pass	
Fluorene	S14-Ja05683	CP	%	123			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja05683	CP	%	101			70-130	Pass	
Naphthalene	S14-Ja05683	CP	%	122			70-130	Pass	
Phenanthrene	S14-Ja05683	CP	%	120			70-130	Pass	
Pyrene	S14-Ja05683	CP	%	112			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S14-Ja05665	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S14-Ja05665	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S14-Ja05665	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S14-Ja05665	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S14-Ja05665	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S14-Ja05665	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total	S14-Ja05665	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S14-Ja05665	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S14-Ja05665	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S14-Ja05665	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S14-Ja06068	NCP	mg/kg	4.2	5.2	21	30%	Pass	
Cadmium	S14-Ja06068	NCP	mg/kg	1.0	1.1	11	30%	Pass	
Chromium	S14-Ja04160	NCP	mg/kg	14	16	18	30%	Pass	
Copper	S14-Ja06068	NCP	mg/kg	130	130	<1	30%	Pass	
Lead	S14-Ja04160	NCP	mg/kg	47	39	18	30%	Pass	
Mercury	S14-Ja04206	NCP	mg/kg	0.060	< 0.05	45	30%	Fail	Q15
Nickel	S14-Ja06068	NCP	mg/kg	10	10	1.0	30%	Pass	
Zinc	S14-Ja06068	NCP	mg/kg	640	590	8.0	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S14-Ja05667	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S14-Ja05667	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S14-Ja05667	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S14-Ja05667	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	S14-Ja05667	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S14-Ja05667	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	S14-Ja05667	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-BHC	S14-Ja05667	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S14-Ja05667	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S14-Ja05667	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S14-Ja05667	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S14-Ja05667	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S14-Ja05667	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S14-Ja05667	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S14-Ja05667	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	S14-Ja05667	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S14-Ja05667	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S14-Ja05667	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	

Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Hexachlorobenzene	S14-Ja05667	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S14-Ja05667	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Toxaphene	S14-Ja05667	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls (PCB)				Result 1	Result 2	RPD			
Aroclor-1016	S14-Ja05667	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1232	S14-Ja05667	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1242	S14-Ja05667	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1248	S14-Ja05667	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1254	S14-Ja05667	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1260	S14-Ja05667	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.1-Dichloroethene	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.1.1-Trichloroethane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.1.2-Trichloroethane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	S14-Ja07760	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromoethane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.2-Dichlorobenzene	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.2-Dichloroethane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.2-Dichloropropane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.2.3-Trichloropropane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.2.4-Trimethylbenzene	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.3-Dichlorobenzene	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.3-Dichloropropane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.3.5-Trimethylbenzene	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
1.4-Dichlorobenzene	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
2-Butanone (MEK)	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4-Chlorotoluene	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Bromobenzene	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Bromochloromethane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Bromodichloromethane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Bromoform	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Bromomethane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Carbon disulfide	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Carbon Tetrachloride	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Chlorobenzene	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Chloroethane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Chloroform	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Chloromethane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
cis-1.2-Dichloroethene	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
cis-1.3-Dichloropropene	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dibromochloromethane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dibromomethane	S14-Ja07760	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorodifluoromethane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Iodomethane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Isopropyl benzene (Cumene)	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methylene Chloride	S14-Ja07760	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Styrene	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Tetrachloroethene	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
trans-1.2-Dichloroethene	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	

Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
trans-1.3-Dichloropropene	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Trichloroethene	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Trichlorofluoromethane	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Vinyl chloride	S14-Ja07760	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Conductivity (1:5 aqueous extract at 25°C)	S14-Ja05681	CP	uS/cm	170	170	1.0	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S14-Ja05683	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S14-Ja05683	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S14-Ja05683	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S14-Ja05683	CP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S14-Ja05683	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S14-Ja05683	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S14-Ja05683	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S14-Ja05683	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S14-Ja05683	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total	S14-Ja05683	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S14-Ja05683	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S14-Ja05683	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10 less BTEX (F1)	S14-Ja05683	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S14-Ja05683	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S14-Ja05683	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S14-Ja05683	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S14-Ja05683	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S14-Ja05683	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S14-Ja05683	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S14-Ja05683	CP	mg/kg	0.5	< 0.5	26	30%	Pass	
Benzo(a)pyrene	S14-Ja05683	CP	mg/kg	0.7	0.5	31	30%	Fail	Q15
Benzo(b&j)fluoranthene	S14-Ja05683	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S14-Ja05683	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S14-Ja05683	CP	mg/kg	0.7	0.5	31	30%	Fail	Q15
Chrysene	S14-Ja05683	CP	mg/kg	0.6	< 0.5	30	30%	Pass	
Dibenz(a.h)anthracene	S14-Ja05683	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S14-Ja05683	CP	mg/kg	0.8	0.6	30	30%	Pass	
Fluorene	S14-Ja05683	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S14-Ja05683	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S14-Ja05683	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S14-Ja05683	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S14-Ja05683	CP	mg/kg	0.9	0.6	30	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q15	The RPD reported passes Eurofins | mgt's Acceptance Criteria as stipulated in SOP 05. Refer to Glossary Page of this report for further details

Authorised By

Jean Heng	Client Services
Bob Symons	Senior Analyst-Inorganic (NSW)
James Norford	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)
Ryan Hamilton	Senior Analyst-Volatile (NSW)

Dr. Bob Symons

Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

Eurofins | mgt shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins | mgt be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

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ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

Melbourne
3-5 Kingston Town Close
Oakleigh VIC 3166
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: GREEN SQUARE BLOCK 5A 43182

Order No.:
Report #: 405699
Phone: 02 8245 0300
Fax:

Received: Jan 15, 2014 3:45 PM
Due: Jan 22, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	Total Recoverable Hydrocarbons	Foreign Materials - ENM	Volatile Organics	JBS&G Suite 2
Laboratory where analysis is conducted														
Melbourne Laboratory - NATA Site # 1254 & 14271														
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
External Laboratory														
Sample ID	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**										
FC001 0.2-0.3	Jan 13, 2014		Soil	S14-Ja05665	X	X		X	X	X	X			
FC001 0.8-1.0	Jan 13, 2014		Soil	S14-Ja05666			X							
FC001 1.5-1.7	Jan 13, 2014		Soil	S14-Ja05667	X	X		X						X
FC002 0.2-0.3	Jan 13, 2014		Soil	S14-Ja05668			X							
FC002 0.8-1.0	Jan 13, 2014		Soil	S14-Ja05669	X	X		X	X	X	X			
FC002 2.8-3.0	Jan 13, 2014		Soil	S14-Ja05670	X	X		X				X		X
FC002 4.8-5.0	Jan 13, 2014		Soil	S14-Ja05671			X							
FC003 0.2-0.3	Jan 13, 2014		Soil	S14-Ja05672	X	X		X						X
FC003 0.8-1.0	Jan 13, 2014		Soil	S14-Ja05673	X	X		X	X	X	X			
FC003 1.8-2.0	Jan 13, 2014		Soil	S14-Ja05674			X							

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NATA # 1261 Site # 20794

Company Name: JBS & G (NSW & WA) Pty Ltd
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: GREEN SQUARE BLOCK 5A 43182

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Received: Jan 15, 2014 3:45 PM
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Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	Total Recoverable Hydrocarbons	Foreign Materials - ENM	Volatile Organics	JBS&G Suite 2
Laboratory where analysis is conducted														
Melbourne Laboratory - NATA Site # 1254 & 14271														
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
External Laboratory														
FC003 2.8-3.0	Jan 13, 2014		Soil	S14-Ja05675	X				X	X	X			
FC003 3.5-3.7	Jan 13, 2014		Soil	S14-Ja05676			X							
FC004 0.2-0.3	Jan 13, 2014		Soil	S14-Ja05677	X	X		X	X	X	X			
FC004 0.8-1.0	Jan 13, 2014		Soil	S14-Ja05678			X							
FC004 1.5-1.7	Jan 13, 2014		Soil	S14-Ja05679	X	X		X						X
FC004 2.8-3.0	Jan 13, 2014		Soil	S14-Ja05680			X							
FC005 0.2-0.3	Jan 13, 2014		Soil	S14-Ja05681	X	X		X					X	X
FC005 1.3-1.5	Jan 13, 2014		Soil	S14-Ja05682			X							
FC005 2.0-2.2	Jan 13, 2014		Soil	S14-Ja05683	X	X		X	X	X	X			
FC005 2.5-2.7	Jan 13, 2014		Soil	S14-Ja05684			X							
FC006 0.2-0.3	Jan 13, 2014		Soil	S14-Ja05685	X	X		X						X

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Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Client Job No.: GREEN SQUARE BLOCK 5A 43182

Order No.:
Report #: 405699
Phone: 02 8245 0300
Fax:

Received: Jan 15, 2014 3:45 PM
Due: Jan 22, 2014
Priority: 5 Day
Contact Name: Nathan Cussen

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	Total Recoverable Hydrocarbons	Foreign Materials - ENM	Volatile Organics	JBS&G Suite 2
Laboratory where analysis is conducted														
Melbourne Laboratory - NATA Site # 1254 & 14271														
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
External Laboratory														
FC006 0.8-1.0	Jan 13, 2014		Soil	S14-Ja05686	X	X		X		X	X		X	
FC006 1.3-1.5	Jan 13, 2014		Soil	S14-Ja05687			X							
FC006 2.0-2.2	Jan 13, 2014		Soil	S14-Ja05688			X							
QC09	Jan 13, 2014		Soil	S14-Ja05689	X									X
QC10	Jan 13, 2014		Soil	S14-Ja05690	X								X	X
FC090 0.2-0.3	Jan 14, 2014		Soil	S14-Ja05691			X							
FC090 0.8-1.0	Jan 14, 2014		Soil	S14-Ja05692	X	X		X	X	X	X			
FC090 1.3-1.5	Jan 14, 2014		Soil	S14-Ja05693			X							
FC090 2.8-3.0	Jan 14, 2014		Soil	S14-Ja05694	X	X		X				X		X
FC090 4.8-5.0	Jan 14, 2014		Soil	S14-Ja05695			X							
FC090 6.3-6.5	Jan 14, 2014		Soil	S14-Ja05696	X	X		X	X	X	X			

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NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Company Name:	JBS & G (NSW & WA) Pty Ltd	**Order No.:**		**Received:**	Jan 15, 2014 3:45 PM
Address:	Level 1, 50 Margaret St Sydney NSW 2000	**Report #:**	405699	**Due:**	Jan 22, 2014
		Phone:	02 8245 0300	**Priority:**	5 Day
		Fax:		**Contact Name:**	Nathan Cussen
Client Job No.:	GREEN SQUARE BLOCK 5A 43182				

Eurofins | mgt Client Manager: Jean Heng

Sample Detail					% Moisture	Conductivity (1:5 aqueous extract at 25°C)	HOLD	pH (1:5 Aqueous extract)	Polycyclic Aromatic Hydrocarbons	Metals M8	Total Recoverable Hydrocarbons	Foreign Materials - ENM	Volatile Organics	JBS&G Suite 2
Laboratory where analysis is conducted														
Melbourne Laboratory - NATA Site # 1254 & 14271														
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794														
External Laboratory														
FC002 1.8-2.0	Jan 14, 2014		Soil	S14-Ja05697			X							

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Unit F3-F6 Building F, Parkview Building
16 Mars Road, Lane Cove West
NSW 2066

CHAIN OF CUSTODY

#405699

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square Block 5A
SEND REPORT TO: N Cureton SEND INVOICE TO: G Ng
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: Chris B
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: nculsone@jbsg.com.au
QC LEVEL: NEPM (2013)

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	JB1	JB1T	JB1A	JB2	JB2A	B10	JB2/JBL	JB3/JBL	JB4	JBL	8 Metals	TEH	PAH	BZ	PH	EM276	VOC				NOTES:
FC001 0.2-0.3	Soil	13/1/14		Jar + Ice												X	X	X	X	X						
FC001 0.8-1.0																										
FC001 1.5-1.7									X										X	X						
FC002 0.2-0.3																										
FC002 0.8-1.0																X	X	X	X	X						
FC002 2.8-3.0				+ 6 Kg Bag					X										X	X	X					
FC002 4.8-5.0																										
FC003 0.2-0.3									X										X	X						
FC003 0.8-1.0																										
FC003 1.8-2.0																X	X	X	X	X						
FC003 2.8-3.0																										
FC003 3.5-3.7																X	X	X								
FC004 0.2-0.3																										
FC004 0.8-1.0																X	X	X	X	X						
FC004 1.5-1.7									X										X	X						
FC004 2.8-3.0																										
FC005 0.2-0.3									X										X	X		X				
FC005 1.3-1.5																										
FC005 2.0-2.2																X	X	X	X	X						

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Nathan DATE: 14 01 14	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE:	
NAME: DATE:	CONSIGNMENT NOTE NO.	OF:	COOLER TEMP ..... deg C
OF:	TRANSPORT CO	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
		OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial, S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - eurofins mgt

JB1 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1T - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos
JB2 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
B10 - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2/JBL - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)
JB3/JBL - TRH/BTEX/PAH/OCP/OPP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)/Asbestos
JB4 - TRH/BTEX/VOC
JBL - TCLP(PAH & 6 Metals)

RECEIVED
15 JAN 2014
BY: Sean 3:45

eurofins | mgt
Unit F3-F6 Building F, Parkview Building
16 Mars Road, Lane Cove West
NSW 2066

CHAIN OF CUSTODY

JBS&G

ALS 93099

PROJECT NO.: 43182
PROJECT NAME: Green Square Block 5A
SEND REPORT TO: N Cussen SEND INVOICE TO: G Ng
DATE NEEDED BY: STD TAT

LABORATORY BATCH NO.:
SAMPLERS: CMN B
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: ncussen@jbsg.com.au
QC LEVEL: NEPM (2013)

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	JB1	JB1T	JB1A	JB2	JB2A	B10	JB2/JBL	JB3/JBL	JB4	JBL	8 Metals	TRH	PAH	pH	EC	RIA 276	VOCs					NOTES:
FC006 2.5 - 2.7	soil	13/1/14		Jar + Ice																							
FC006 0.2 - 0.3									X										X	X							
FC006 0.8 - 1.0																X	X		X	X		X					
FC006 1.3 - 1.5																											
FC006 2.0 - 2.2																											
QC09									X																		
QC10									X													X					
FC090 0.2 - 0.3		14/1/14																									
FC090 0.8 - 1.0																X	X	X	X	X							
FC090 1.3 - 1.5																											
FC090 2.8 - 3.0				+ 6IC Bag					X										X	X	X						
FC090 4.8 - 5.0																											
FC090 6.2 - 6.5																X	X	X	X	X							
FC002 1.7 - 2.0																											

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: N Cussen DATE: 14 a. 14 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C
NAME: DATE: OF:	CONSIGNMENT NOTE NO. TRANSPORT CO	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - eurofins mgt

JB1 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1T - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
JB1A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos
JB2 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
B10 - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
JB2/JBL - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)
JB3/JBL - TRH/BTEX/PAH/OCP/OPP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)/Asbestos
JB4 - TRH/BTEX/VOC
JBL - TCLP(PAH & 6 Metals)

RECEIVED
15 JAN 2014
BY: Sean O 5:45

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

SAMPLE RECEIPT ADVICE

Client:

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney NSW 2000

ph: 02 8245 0300
Fax: 02 8245 0399

Attention: Joanne Rosner, Nathan Cussen

Sample log in details:

Your reference:	**43182, Green Square Block 5A**
Envirolab Reference:	**103549**
Date received:	15/01/14
Date results expected to be reported:	**22/01/14**

Samples received in appropriate condition for analysis:	YES
No. of samples provided	2 soils
Turnaround time requested:	Standard
Temperature on receipt (°C)	NA
Cooling Method:	None
Sampling Date Provided:	YES

Comments:

Samples will be held for 1 month for water samples and 2 months for soil samples from date of receipt of samples.

Contact details:

Please direct any queries to Aileen Hie or Jacinta Hurst
ph: 02 9910 6200 fax: 02 9910 6201
email: ahie@envirolabservices.com.au or jhurst@envirolabservices.com.au

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

CERTIFICATE OF ANALYSIS 103549

Client:
JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention: Joanne Rosner, Nathan Cussen

Sample log in details:

Your Reference:	**43182, Green Square Block 5A**		
No. of samples:	2 soils		
Date samples received / completed instructions received	15/01/14	/	15/01/14

Analysis Details:
Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by: / Issue Date:	22/01/14	/	20/01/14
Date of Preliminary Report:	Not issued		

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Accredited for compliance with ISO/IEC 17025. **Tests not covered by NATA are denoted with *.**

Results Approved By:

Jacinta Hurst
Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil			
Our Reference:	UNITS	103549-1	103549-2
Your Reference	----------	QC09-A	QC10-A
Date Sampled	----------	13/01/2014	13/01/2014
Type of sample		soil	soil
Date extracted	-	16/01/2014	16/01/2014
Date analysed	-	17/01/2014	17/01/2014
TRH C_6 - C_9	mg/kg	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25
Benzene	mg/kg	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1
m+p-xylene	mg/kg	<2	<2
o-Xylene	mg/kg	<1	<1
naphthalene	mg/kg	<1	<1
Surrogate aaa-Trifluorotoluene	%	94	95

svTRH (C10-C40) in Soil			
Our Reference:	UNITS	103549-1	103549-2
Your Reference	----------	QC09-A	QC10-A
Date Sampled	----------	13/01/2014	13/01/2014
Type of sample		soil	soil
Date extracted	-	16/01/2014	16/01/2014
Date analysed	-	16/01/2014	16/01/2014
TRHC$_{10}$ - C$_{14}$	mg/kg	<50	<50
TRHC$_{15}$ - C$_{28}$	mg/kg	<100	150
TRHC$_{29}$ - C$_{36}$	mg/kg	<100	210
TRH>C$_{10}$-C$_{16}$	mg/kg	<50	<50
TRH>C$_{10}$ - C$_{16}$ less Naphthalene (F2)	mg/kg	<50	<50
TRH>C$_{16}$-C$_{34}$	mg/kg	<100	320
TRH>C$_{34}$-C$_{40}$	mg/kg	<100	110
Surrogate o-Terphenyl	%	101	96

PAHs in Soil Our Reference: Your Reference Date Sampled Type of sample	UNITS ---------- ----------	103549-1 QC09-A 13/01/2014 soil	103549-2 QC10-A 13/01/2014 soil
Date extracted	-	16/01/2014	16/01/2014
Date analysed	-	16/01/2014	16/01/2014
Naphthalene	mg/kg	<0.1	1.5
Acenaphthylene	mg/kg	<0.1	1.8
Acenaphthene	mg/kg	<0.1	0.4
Fluorene	mg/kg	<0.1	1.7
Phenanthrene	mg/kg	0.5	18
Anthracene	mg/kg	0.1	3.8
Fluoranthene	mg/kg	1.2	17
Pyrene	mg/kg	1.2	16
Benzo(a)anthracene	mg/kg	0.7	7.9
Chrysene	mg/kg	0.7	6.5
Benzo(b+k)fluoranthene	mg/kg	1.3	11
Benzo(a)pyrene	mg/kg	0.92	7.8
Indeno(1,2,3-c,d)pyrene	mg/kg	0.6	4.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	0.7
Benzo(g,h,i)perylene	mg/kg	0.6	3.6
Benzo(a)pyrene TEQ NEPM B1	mg/kg	1	11
Total +ve PAH's	mg/kg	7.9	100
Surrogate p-Terphenyl-d14	%	105	105

Organochlorine Pesticides in soil			
Our Reference:	UNITS	103549-1	103549-2
Your Reference	----------	QC09-A	QC10-A
Date Sampled	----------	13/01/2014	13/01/2014
Type of sample		soil	soil
Date extracted	-	16/01/2014	16/01/2014
Date analysed	-	17/01/2014	17/01/2014
HCB	mg/kg	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1
Surrogate TCMX	%	103	93

PCBs in Soil			
Our Reference:	UNITS	103549-1	103549-2
Your Reference	----------	QC09-A	QC10-A
Date Sampled	----------	13/01/2014	13/01/2014
Type of sample		soil	soil
Date extracted	-	16/01/2014	16/01/2014
Date analysed	-	17/01/2014	17/01/2014
Arochlor 1016	mg/kg	<0.1	<0.1
Arochlor 1221	mg/kg	<0.1	<0.1
Arochlor 1232	mg/kg	<0.1	<0.1
Arochlor 1242	mg/kg	<0.1	<0.1
Arochlor 1248	mg/kg	<0.1	<0.1
Arochlor 1254	mg/kg	<0.1	<0.1
Arochlor 1260	mg/kg	<0.1	<0.1
Surrogate TCLMX	%	103	93

Acid Extractable metals in soil			
Our Reference:	UNITS	103549-1	103549-2
Your Reference	----------	QC09-A	QC10-A
Date Sampled	----------	13/01/2014	13/01/2014
Type of sample		soil	soil
Date digested	-	16/01/2014	16/01/2014
Date analysed	-	16/01/2014	16/01/2014
Arsenic	mg/kg	<4	<4
Cadmium	mg/kg	<0.4	<0.4
Chromium	mg/kg	28	26
Copper	mg/kg	37	49
Lead	mg/kg	66	250
Mercury	mg/kg	<0.1	0.4
Nickel	mg/kg	23	5
Zinc	mg/kg	77	250

Moisture			
Our Reference:	UNITS	103549-1	103549-2
Your Reference	----------	QC09-A	QC10-A
Date Sampled	----------	13/01/2014	13/01/2014
Type of sample		soil	soil
Date prepared	-	16/01/2014	16/01/2014
Date analysed	-	17/01/2014	17/01/2014
Moisture	%	5.7	6.9

Method ID	Methodology Summary
Org-016	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-014	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-003	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note Naphthalene is determined from the VOC analysis.
Org-012 subset	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.
Org-005	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.
Org-006	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.
Metals-020 ICP-AES	Determination of various metals by ICP-AES.
Metals-021 CV-AAS	Determination of Mercury by Cold Vapour AAS.
Inorg-008	Moisture content determined by heating at 105+/-5 deg C for a minimum of 12 hours.

QUALITY CONTROL vTRH(C6-C10)/BTEXN in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base || Duplicate || %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			16/01/2014	103549-1	16/01/2014 || 16/01/2014	LCS-1	16/01/2014
Date analysed	-			17/01/2014	103549-1	17/01/2014 || 17/01/2014	LCS-1	17/01/2014
TRHC$_6$ - C$_9$	mg/kg	25	Org-016	<25	103549-1	<25 || <25	LCS-1	107%
TRHC$_6$ - C$_{10}$	mg/kg	25	Org-016	<25	103549-1	<25 || <25	LCS-1	107%
Benzene	mg/kg	0.2	Org-016	<0.2	103549-1	<0.2 || <0.2	LCS-1	95%
Toluene	mg/kg	0.5	Org-016	<0.5	103549-1	<0.5 || <0.5	LCS-1	105%
Ethylbenzene	mg/kg	1	Org-016	<1	103549-1	<1 || <1	LCS-1	109%
m+p-xylene	mg/kg	2	Org-016	<2	103549-1	<2 || <2	LCS-1	111%
o-Xylene	mg/kg	1	Org-016	<1	103549-1	<1 || <1	LCS-1	114%
naphthalene	mg/kg	1	Org-014	<1	103549-1	<1 || <1	[NR]	[NR]
Surrogate aaa-Trifluorotoluene	%		Org-016	99	103549-1	94 || 94 || RPD: 0	LCS-1	97%

QUALITY CONTROL svTRH (C10-C40) in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base || Duplicate || %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			16/01/2014	103549-1	16/01/2014 || 16/01/2014	LCS-1	16/01/2014
Date analysed	-			16/01/2014	103549-1	16/01/2014 || 16/01/2014	LCS-1	16/01/2014
TRHC$_{10}$ - C$_{14}$	mg/kg	50	Org-003	<50	103549-1	<50 || <50	LCS-1	125%
TRHC$_{15}$ - C$_{28}$	mg/kg	100	Org-003	<100	103549-1	<100 || <100	LCS-1	101%
TRHC$_{29}$ - C$_{36}$	mg/kg	100	Org-003	<100	103549-1	<100 || <100	LCS-1	92%
TRH>C$_{10}$-C$_{16}$	mg/kg	50	Org-003	<50	103549-1	<50 || <50	LCS-1	125%
TRH>C$_{16}$-C$_{34}$	mg/kg	100	Org-003	<100	103549-1	<100 || <100	LCS-1	101%
TRH>C$_{34}$-C$_{40}$	mg/kg	100	Org-003	<100	103549-1	<100 || <100	LCS-1	92%
Surrogate o-Terphenyl	%		Org-003	93	103549-1	101 || 100 || RPD: 1	LCS-1	102%

QUALITY CONTROL PAHs in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base || Duplicate || %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			16/01/2014	103549-1	16/01/2014 || 16/01/2014	LCS-1	16/01/2014
Date analysed	-			16/01/2014	103549-1	16/01/2014 || 16/01/2014	LCS-1	16/01/2014
Naphthalene	mg/kg	0.1	Org-012 subset	<0.1	103549-1	<0.1 || <0.1	LCS-1	105%
Acenaphthylene	mg/kg	0.1	Org-012 subset	<0.1	103549-1	<0.1 || <0.1	[NR]	[NR]
Acenaphthene	mg/kg	0.1	Org-012 subset	<0.1	103549-1	<0.1 || <0.1	[NR]	[NR]
Fluorene	mg/kg	0.1	Org-012 subset	<0.1	103549-1	<0.1 || <0.1	LCS-1	105%
Phenanthrene	mg/kg	0.1	Org-012 subset	<0.1	103549-1	0.5 || 0.5 || RPD: 0	LCS-1	102%
Anthracene	mg/kg	0.1	Org-012 subset	<0.1	103549-1	0.1 || 0.1 || RPD: 0	[NR]	[NR]
Fluoranthene	mg/kg	0.1	Org-012 subset	<0.1	103549-1	1.2 || 1.4 || RPD: 15	LCS-1	98%

QUALITY CONTROL PAHs in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base || Duplicate || %RPD	Spike Sm#	Spike % Recovery
Pyrene	mg/kg	0.1	Org-012 subset	<0.1	103549-1	1.2 || 1.4 || RPD: 15	LCS-1	105%
Benzo(a)anthracene	mg/kg	0.1	Org-012 subset	<0.1	103549-1	0.7 || 0.8 || RPD: 13	[NR]	[NR]
Chrysene	mg/kg	0.1	Org-012 subset	<0.1	103549-1	0.7 || 0.7 || RPD: 0	LCS-1	99%
Benzo(b+k)fluoranthene	mg/kg	0.2	Org-012 subset	<0.2	103549-1	1.3 || 1.5 || RPD: 14	[NR]	[NR]
Benzo(a)pyrene	mg/kg	0.05	Org-012 subset	<0.05	103549-1	0.92 || 0.97 || RPD: 5	LCS-1	110%
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012 subset	<0.1	103549-1	0.6 || 0.6 || RPD: 0	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-012 subset	<0.1	103549-1	<0.1 || 0.1	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-012 subset	<0.1	103549-1	0.6 || 0.6 || RPD: 0	[NR]	[NR]
Surrogate p-Terphenyl-d14	%		Org-012 subset	97	103549-1	105 || 104 || RPD: 1	LCS-1	101%

QUALITY CONTROL Organochlorine Pesticides in soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base || Duplicate || %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			16/01/2014	103549-1	16/01/2014 || 16/01/2014	LCS-1	16/01/2014
Date analysed	-			17/01/2014	103549-1	17/01/2014 || 17/01/2014	LCS-1	17/01/2014
HCB	mg/kg	0.1	Org-005	<0.1	103549-1	<0.1 || <0.1	[NR]	[NR]
alpha-BHC	mg/kg	0.1	Org-005	<0.1	103549-1	<0.1 || <0.1	LCS-1	114%
gamma-BHC	mg/kg	0.1	Org-005	<0.1	103549-1	<0.1 || <0.1	[NR]	[NR]
beta-BHC	mg/kg	0.1	Org-005	<0.1	103549-1	<0.1 || <0.1	LCS-1	110%
Heptachlor	mg/kg	0.1	Org-005	<0.1	103549-1	<0.1 || <0.1	LCS-1	116%
delta-BHC	mg/kg	0.1	Org-005	<0.1	103549-1	<0.1 || <0.1	[NR]	[NR]
Aldrin	mg/kg	0.1	Org-005	<0.1	103549-1	<0.1 || <0.1	LCS-1	119%
Heptachlor Epoxide	mg/kg	0.1	Org-005	<0.1	103549-1	<0.1 || <0.1	LCS-1	116%
gamma-Chlordane	mg/kg	0.1	Org-005	<0.1	103549-1	<0.1 || <0.1	[NR]	[NR]
alpha-chlordane	mg/kg	0.1	Org-005	<0.1	103549-1	<0.1 || <0.1	[NR]	[NR]
Endosulfan I	mg/kg	0.1	Org-005	<0.1	103549-1	<0.1 || <0.1	[NR]	[NR]
pp-DDE	mg/kg	0.1	Org-005	<0.1	103549-1	<0.1 || <0.1	LCS-1	123%
Dieldrin	mg/kg	0.1	Org-005	<0.1	103549-1	<0.1 || <0.1	LCS-1	117%
Endrin	mg/kg	0.1	Org-005	<0.1	103549-1	<0.1 || <0.1	LCS-1	108%
pp-DDD	mg/kg	0.1	Org-005	<0.1	103549-1	<0.1 || <0.1	LCS-1	112%
Endosulfan II	mg/kg	0.1	Org-005	<0.1	103549-1	<0.1 || <0.1	[NR]	[NR]
pp-DDT	mg/kg	0.1	Org-005	<0.1	103549-1	<0.1 || <0.1	[NR]	[NR]
Endrin Aldehyde	mg/kg	0.1	Org-005	<0.1	103549-1	<0.1 || <0.1	[NR]	[NR]
Endosulfan Sulphate	mg/kg	0.1	Org-005	<0.1	103549-1	<0.1 || <0.1	LCS-1	110%
Methoxychlor	mg/kg	0.1	Org-005	<0.1	103549-1	<0.1 || <0.1	[NR]	[NR]
Surrogate TCMX	%		Org-005	96	103549-1	103 || 98 || RPD: 5	LCS-1	98%

QUALITY CONTROL PCBs in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date extracted	-			16/01/2014	103549-1	16/01/2014 || 16/01/2014	LCS-1	16/01/2014
Date analysed	-			17/01/2014	103549-1	17/01/2014 || 17/01/2014	LCS-1	17/01/2014
Arochlor 1016	mg/kg	0.1	Org-006	<0.1	103549-1	<0.1 || <0.1	[NR]	[NR]
Arochlor 1221	mg/kg	0.1	Org-006	<0.1	103549-1	<0.1 || <0.1	[NR]	[NR]
Arochlor 1232	mg/kg	0.1	Org-006	<0.1	103549-1	<0.1 || <0.1	[NR]	[NR]
Arochlor 1242	mg/kg	0.1	Org-006	<0.1	103549-1	<0.1 || <0.1	[NR]	[NR]
Arochlor 1248	mg/kg	0.1	Org-006	<0.1	103549-1	<0.1 || <0.1	[NR]	[NR]
Arochlor 1254	mg/kg	0.1	Org-006	<0.1	103549-1	<0.1 || <0.1	LCS-1	88%
Arochlor 1260	mg/kg	0.1	Org-006	<0.1	103549-1	<0.1 || <0.1	[NR]	[NR]
Surrogate TCLMX	%		Org-006	96	103549-1	103 || 98 || RPD: 5	LCS-1	94%
QUALITY CONTROL Acid Extractable metals in soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base ll Duplicate ll %RPD	Spike Sm#	Spike % Recovery
Date digested	-			16/01/2014	103549-1	16/01/2014 || 16/01/2014	LCS-8	16/01/2014
Date analysed	-			16/01/2014	103549-1	16/01/2014 || 16/01/2014	LCS-8	16/01/2014
Arsenic	mg/kg	4	Metals-020 ICP-AES	<4	103549-1	<4 || <4	LCS-8	95%
Cadmium	mg/kg	0.4	Metals-020 ICP-AES	<0.4	103549-1	<0.4 || <0.4	LCS-8	99%
Chromium	mg/kg	1	Metals-020 ICP-AES	<1	103549-1	28 || 21 || RPD: 29	LCS-8	99%
Copper	mg/kg	1	Metals-020 ICP-AES	<1	103549-1	37 || 35 || RPD: 6	LCS-8	99%
Lead	mg/kg	1	Metals-020 ICP-AES	<1	103549-1	66 || 67 || RPD: 2	LCS-8	97%
Mercury	mg/kg	0.1	Metals-021 CV-AAS	<0.1	103549-1	<0.1 || <0.1	LCS-8	99%
Nickel	mg/kg	1	Metals-020 ICP-AES	<1	103549-1	23 || 17 || RPD: 30	LCS-8	99%
Zinc	mg/kg	1	Metals-020 ICP-AES	<1	103549-1	77 || 82 || RPD: 6	LCS-8	98%

QUALITY CONTROL Moisture	UNITS	PQL	METHOD	Blank
Date prepared	-			[NT]
Date analysed	-			[NT]
Moisture	%	0.1	Inorg-008	[NT]

QUALITY CONTROL vTRH(C6-C10)/BTEXN in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	[NT]	[NT]	103549-2	16/01/2014
Date analysed	-	[NT]	[NT]	103549-2	17/01/2014
TRHC$_6$ - C$_9$	mg/kg	[NT]	[NT]	103549-2	101%
TRHC$_6$ - C$_{10}$	mg/kg	[NT]	[NT]	103549-2	101%
Benzene	mg/kg	[NT]	[NT]	103549-2	92%
Toluene	mg/kg	[NT]	[NT]	103549-2	100%
Ethylbenzene	mg/kg	[NT]	[NT]	103549-2	103%
m+p-xylene	mg/kg	[NT]	[NT]	103549-2	105%
o-Xylene	mg/kg	[NT]	[NT]	103549-2	108%
naphthalene	mg/kg	[NT]	[NT]	[NR]	[NR]
Surrogate aaa-Trifluorotoluene	%	[NT]	[NT]	103549-2	93%

QUALITY CONTROL svTRH (C10-C40) in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	[NT]	[NT]	103549-2	16/01/2014
Date analysed	-	[NT]	[NT]	103549-2	16/01/2014
TRHC$_{10}$ - C$_{14}$	mg/kg	[NT]	[NT]	103549-2	91%
TRHC$_{15}$ - C$_{28}$	mg/kg	[NT]	[NT]	103549-2	135%
TRHC$_{29}$ - C$_{36}$	mg/kg	[NT]	[NT]	103549-2	#
TRH>C$_{10}$-C$_{16}$	mg/kg	[NT]	[NT]	103549-2	91%
TRH>C$_{16}$-C$_{34}$	mg/kg	[NT]	[NT]	103549-2	135%
TRH>C$_{34}$-C$_{40}$	mg/kg	[NT]	[NT]	103549-2	#
Surrogate o-Terphenyl	%	[NT]	[NT]	103549-2	100%

QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	[NT]	[NT]	103549-2	16/01/2014
Date analysed	-	[NT]	[NT]	103549-2	16/01/2014
Naphthalene	mg/kg	[NT]	[NT]	103549-2	101%
Acenaphthylene	mg/kg	[NT]	[NT]	[NR]	[NR]
Acenaphthene	mg/kg	[NT]	[NT]	[NR]	[NR]
Fluorene	mg/kg	[NT]	[NT]	[NR]	[NR]
Phenanthrene	mg/kg	[NT]	[NT]	103549-2	105%
Anthracene	mg/kg	[NT]	[NT]	103549-2	#
Fluoranthene	mg/kg	[NT]	[NT]	[NR]	[NR]
Pyrene	mg/kg	[NT]	[NT]	103549-2	#
Benzo(a)anthracene	mg/kg	[NT]	[NT]	103549-2	#
Chrysene	mg/kg	[NT]	[NT]	[NR]	[NR]

QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Benzo(b+k)fluoranthene	mg/kg	[NT]	[NT]	103549-2	#
Benzo(a)pyrene	mg/kg	[NT]	[NT]	[NR]	[NR]
Indeno(1,2,3-c,d)pyrene	mg/kg	[NT]	[NT]	103549-2	#
Dibenzo(a,h)anthracene	mg/kg	[NT]	[NT]	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	[NT]	[NT]	[NR]	[NR]
Surrogate p-Terphenyl-d14	%	[NT]	[NT]	103549-2	107%
QUALITY CONTROL Organochlorine Pesticides in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	[NT]	[NT]	103549-2	16/01/2014
Date analysed	-	[NT]	[NT]	103549-2	17/01/2014
HCB	mg/kg	[NT]	[NT]	[NR]	[NR]
alpha-BHC	mg/kg	[NT]	[NT]	103549-2	110%
gamma-BHC	mg/kg	[NT]	[NT]	[NR]	[NR]
beta-BHC	mg/kg	[NT]	[NT]	103549-2	102%
Heptachlor	mg/kg	[NT]	[NT]	103549-2	104%
delta-BHC	mg/kg	[NT]	[NT]	[NR]	[NR]
Aldrin	mg/kg	[NT]	[NT]	103549-2	112%
Heptachlor Epoxide	mg/kg	[NT]	[NT]	103549-2	106%
gamma-Chlordane	mg/kg	[NT]	[NT]	[NR]	[NR]
alpha-chlordane	mg/kg	[NT]	[NT]	[NR]	[NR]
Endosulfan I	mg/kg	[NT]	[NT]	[NR]	[NR]
pp-DDE	mg/kg	[NT]	[NT]	103549-2	100%
Dieldrin	mg/kg	[NT]	[NT]	103549-2	109%
Endrin	mg/kg	[NT]	[NT]	103549-2	100%
pp-DDD	mg/kg	[NT]	[NT]	103549-2	114%
Endosulfan II	mg/kg	[NT]	[NT]	[NR]	[NR]
pp-DDT	mg/kg	[NT]	[NT]	[NR]	[NR]
Endrin Aldehyde	mg/kg	[NT]	[NT]	[NR]	[NR]
Endosulfan Sulphate	mg/kg	[NT]	[NT]	103549-2	104%
Methoxychlor	mg/kg	[NT]	[NT]	[NR]	[NR]
Surrogate TCMX	%	[NT]	[NT]	103549-2	96%

QUALITY CONTROL PCBs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	[NT]	[NT]	103549-2	16/01/2014
Date analysed	-	[NT]	[NT]	103549-2	17/01/2014
Arochlor 1016	mg/kg	[NT]	[NT]	[NR]	[NR]
Arochlor 1221	mg/kg	[NT]	[NT]	[NR]	[NR]
Arochlor 1232	mg/kg	[NT]	[NT]	[NR]	[NR]
Arochlor 1242	mg/kg	[NT]	[NT]	[NR]	[NR]
Arochlor 1248	mg/kg	[NT]	[NT]	[NR]	[NR]
Arochlor 1254	mg/kg	[NT]	[NT]	103549-2	86%
Arochlor 1260	mg/kg	[NT]	[NT]	[NR]	[NR]
Surrogate TCLMX	%	[NT]	[NT]	103549-2	86%
QUALITY CONTROL Acid Extractable metals in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date digested	-	[NT]	[NT]	103549-2	16/01/2014
Date analysed	-	[NT]	[NT]	103549-2	16/01/2014
Arsenic	mg/kg	[NT]	[NT]	103549-2	100%
Cadmium	mg/kg	[NT]	[NT]	103549-2	81%
Chromium	mg/kg	[NT]	[NT]	103549-2	118%
Copper	mg/kg	[NT]	[NT]	103549-2	114%
Lead	mg/kg	[NT]	[NT]	103549-2	#
Mercury	mg/kg	[NT]	[NT]	103549-2	115%
Nickel	mg/kg	[NT]	[NT]	103549-2	89%
Zinc	mg/kg	[NT]	[NT]	103549-2	#

Report Comments:

Acid Extractable Metals in Soil: # Percent recovery is not possible to report due to the high concentration of the element/s in the sample/s. However an acceptable recovery was obtained for the LCS.

Total Recoverable Hydrocarbons in soil (NEPM):# Percent recovery is not possible to report as the high concentration of analytes in the sample/s have caused interference.

PAH's in soil:# Percent recovery is not possible to report as the high concentration of analytes in the sample/s have caused interference.

Asbestos ID was analysed by Approved Identifier:	Not applicable for this job
Asbestos ID was authorised by Approved Signatory:	Not applicable for this job

INS: Insufficient sample for this test	PQL: Practical Quantitation Limit	NT: Not tested
NA: Test not required	RPD: Relative Percent Difference	NA: Test not required
<: Less than	>: Greater than	LCS: Laboratory Control Sample

Quality Control Definitions

Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

Duplicate: This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

Matrix Spike : A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

LCS (Laboratory Control Sample) : This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Surrogate Spike: Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.
Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.
Spikes for Physical and Aggregate Tests are not applicable.
For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.
Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for SVOC and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Envirolab Services Pty Ltd
12 Ashley Street
Chatswood
NSW 2067

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 43192
PROJECT NAME: Green Square Block 5A
SEND REPORT TO: SEND INVOICE TO:
DATE NEEDED BY:
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: Chris B
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: nwasser@jbsg.com.au
QC LEVEL: NEPM (2013)

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	COMBO SUITES: SOIL - 4	SOIL – 4L	SOIL – 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER – 1m	WATER – 2L	WATER – 3L	NOTES:
1	QC04-A	soil	13/1/14		Jar + Ice					X							
2	QC10-A	soil	13/1/14		Jar + Ice					X							

ENVIROLAB

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 103549
Date Received: 15/01
Time Received: 15:30
Received by: CY
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Nathan DATE: 14 01 14	CONSIGNMENT NOTE NO.	NAME: Sophie	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE:	
NAME: DATE:	CONSIGNMENT NOTE NO.	OF: RLS	COOLER TEMP ..... deg C
OF:	TRANSPORT CO	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
		OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Envirolab

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

SAMPLE RECEIPT ADVICE

Client:

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney NSW 2000

ph: 02 8245 0300
Fax: 02 8245 0399

Attention: Nathan Cussen

Sample log in details:

Your reference:	**43182, Green Square Block 5A**
Envirolab Reference:	**103652**
Date received:	16/01/14
Date results expected to be reported:	**24/01/14**

Samples received in appropriate condition for analysis:	YES
No. of samples provided	10 Soils
Turnaround time requested:	Standard
Temperature on receipt (°C)	NA
Cooling Method:	None
Sampling Date Provided:	YES

Comments:

Samples will be held for 1 month for water samples and 2 months for soil samples from date of receipt of samples.

Contact details:

Please direct any queries to Aileen Hie or Jacinta Hurst
ph: 02 9910 6200 fax: 02 9910 6201
email: ahie@envirolabservices.com.au or jhurst@envirolabservices.com.au

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

CERTIFICATE OF ANALYSIS 103552

Client:

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention: Joanne Rosner, Nathan Cussen

Sample log in details:

Your Reference:	**43182, Green Square Block 5A**
No. of samples:	34 soil
Date samples received / completed instructions received	15/01/14 / 15/01/14

Analysis Details:

Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by: / Issue Date:	22/01/14 / 22/01/14
Date of Preliminary Report:	Not Issued

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Accredited for compliance with ISO/IEC 17025. **Tests not covered by NATA are denoted with *.**

Results Approved By:

Jacinta Hurst
Laboratory Manager

Asbestos ID - soils WA						
Our Reference:	UNITS	103552-1	103552-3	103552-5	103552-7	103552-9
Your Reference	----------	FC001	FC001	FC002	FC002	FC003
Depth	----------	0.2-0.3	1.5-1.7	0.8-1.0	2.8-3.0	0.2-0.3
Date Sampled		13/01/2014	13/01/2014	13/01/2014	13/01/2014	13/01/2014
Type of sample		soil	soil	soil	soil	soil
Date analysed	-	22/01/2014	22/01/2014	22/01/2014	22/01/2014	22/01/2014
Sample mass tested	g	1040.54g	720.55g	1047.55g	1046.24g	1184.31g
Sample Description	-	Brown fine-grained soil & rocks	Pink/Beige fine-grained soil & rocks	Brown fine-grained soil & rocks	Beige fine-grained soil & rocks	Brown fine-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected

Asbestos ID - soils WA						
Our Reference:	UNITS	103552-10	103552-12	103552-14	103552-16	103552-18
Your Reference	----------	FC003	FC003	FC005	FC005	FC006
Depth	----------	0.8-1.0	2.8-3.0	0.2-0.3	2.0-2.2	0.2-0.3
Date Sampled		13/01/2014	13/01/2014	13/01/2014	13/01/2014	13/01/2014
Type of sample		soil	soil	soil	soil	soil
Date analysed	-	22/01/2014	22/01/2014	22/01/2014	22/01/2014	22/01/2014
Sample mass tested	g	1011.33g	1101.28g	840.32g	10280.01g	31.88g
Sample Description	-	Brown fine-grained soil & rocks	Brown fine-grained soil & rocks	Brown fine-grained soil & rocks	Beige fine-grained soil & rocks	Beige fine-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected

Asbestos ID - soils WA						
Our Reference:	UNITS	103552-19	103552-22	103552-23	103552-25	103552-27
Your Reference	----------	FC006	QC09	QC10	FC090	FC090
Depth	----------	0.8-1.0	-	-	0.8-1.0	2.8-3.0
Date Sampled		13/01/2014	13/01/2014	13/01/2014	14/01/2014	14/01/2014
Type of sample		soil	soil	soil	soil	soil
Date analysed	-	22/01/2014	22/01/2014	22/01/2014	22/01/2014	22/01/2014
Sample mass tested	g	1015.31g	1095.84g	799.32g	1007.76g	926.34g
Sample Description	-	Brown fine-grained soil & rocks	Brown fine-grained soil & rocks	Brown fine-grained soil & rocks	Dark brown fine-grained soil & rocks	White coarse-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected	No respirable fibres detected

Asbestos ID - soils WA		
Our Reference:	UNITS	103552-29
Your Reference	----------	FC090
Depth	----------	6.3-6.5
Date Sampled		14/01/2014
Type of sample		soil
Date analysed	-	22/01/2014
Sample mass tested	g	1131.00g
Sample Description	-	Beige fine-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected

Method ID	Methodology Summary
ASB-003	Asbestos ID - Minimum 500mL soil sample was analysed as recommended by "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.1g/kg as per AS4964-2004.

Report Comments:

This report is consistent with the analytical procedures and reporting recommendations in the Western Australian Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009.

Asbestos ID was analysed by Approved Identifier:	Paul Ching
Asbestos ID was authorised by Approved Signatory:	Matt Mansfield

INS: Insufficient sample for this test	PQL: Practical Quantitation Limit	NT: Not tested
NA: Test not required	RPD: Relative Percent Difference	NA: Test not required
<: Less than	>: Greater than	LCS: Laboratory Control Sample

Quality Control Definitions

Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

Duplicate: This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

Matrix Spike : A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

LCS (Laboratory Control Sample) : This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

Surrogate Spike: Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.
Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.
Spikes for Physical and Aggregate Tests are not applicable.
For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.
Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for SVOC and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

12 Ashley Street
Chatswood
NSW 2067

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Crown Square Block 5A
SEND REPORT TO: N Cousins SEND INVOICE TO: C Ng
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: T Crook
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: ncousins@jbsg.com.au
QC LEVEL: NEPM (2013)

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	COMBO SUITES: SOIL - 4	SOIL - 4L	SOIL - 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER - 1m	WATER - 2L	WATER - 3L	Asbestos	NOTES:
1-	FC001 5.0	Soil	16.1.19		Bag												X	
2-	FC001 6.5																	
3-	FC102 0.0																X	
4-	FC102 0.5																	
5-	FC102 1.0																X	
6-	FC102 2.0																	
7-	FC102 3.0																X	
8-	FC102 4.0																	
9-	FC102 5.0																X	
10-	FC102 6.5																	

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 103652
Date Received: 16/01/19
Time Received: 17:45
Received by: AW
Temp: Cool/Ambient
Cooling: Ice/icepack
Security: Intact/Broken/None

RELINQUISHED BY:
NAME: N. Cousins DATE: 17 01 19
OF: JBS&G
NAME: DATE:
OF:

METHOD OF SHIPMENT:
CONSIGNMENT NOTE NO.
TRANSPORT CO.
CONSIGNMENT NOTE NO.
TRANSPORT CO

RECEIVED BY:
NAME: Aiwei
DATE: 16/01/19
OF: ELS
NAME: DATE:
OF:

FOR RECEIVING LAB USE ONLY:
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Envirolab

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

SAMPLE RECEIPT ADVICE

Client:

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney NSW 2000

ph: 02 8245 0300
Fax: 02 8245 0399

Attention: Nathan Cussen

Sample log in details:

Your reference:	**43182, Green Square Block 5A**
Envirolab Reference:	**103653**
Date received:	16/01/14
Date results expected to be reported:	**24/01/14**

Samples received in appropriate condition for analysis:	YES
No. of samples provided	4 Soils
Turnaround time requested:	Standard
Temperature on receipt (°C)	NA
Cooling Method:	None
Sampling Date Provided:	YES

Comments:

Samples will be held for 1 month for water samples and 2 months for soil samples from date of receipt of samples.

Contact details:

Please direct any queries to Aileen Hie or Jacinta Hurst
ph: 02 9910 6200 fax: 02 9910 6201
email: ahie@envirolabservices.com.au or jhurst@envirolabservices.com.au

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

CERTIFICATE OF ANALYSIS 103653

Client:

JBS & G (NSW & WA) Pty Ltd
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention: Nathan Cussen

Sample log in details:

Your Reference:	**43182, Green Square Block 5A**
No. of samples:	4 Soils
Date samples received / completed instructions received	16/01/14 / 17/01/14

Analysis Details:

Please refer to the following pages for results, methodology summary and quality control data.
Samples were analysed as received from the client. Results relate specifically to the samples as received.
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.
Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by: / Issue Date:	24/01/14 / 23/01/14
Date of Preliminary Report:	Not Issued

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Accredited for compliance with ISO/IEC 17025. **Tests not covered by NATA are denoted with *.**

Results Approved By:

Jacinta Hurst
Laboratory Manager

Asbestos ID - soils WA			
Our Reference:	UNITS	103653-1	103653-3
Your Reference	----------	FC004	FC004
Depth	----------	0.2-0.3	1.5-1.7
Date Sampled		13/01/2014	13/01/2014
Type of sample		soil	soil
Date analysed	-	23/01/2014	23/01/2014
Sample mass tested	g	782.48g	640.58g
Sample Description	-	Grey coarse-grained soil & rocks	Grey coarse-grained soil & rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg	No asbestos detected at reporting limit of 0.1g/kg
Trace Analysis	-	No respirable fibres detected	No respirable fibres detected

Method ID	Methodology Summary
ASB-003	Asbestos ID - Minimum 500mL soil sample was analysed as recommended by "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.1g/kg as per AS4964-2004.

Report Comments:

This report is consistent with the analytical procedures and reporting recommendations in the Western Australian Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009.

Asbestos ID was analysed by Approved Identifier:	Paul Ching
Asbestos ID was authorised by Approved Signatory:	Matt Mansfield

INS: Insufficient sample for this test	PQL: Practical Quantitation Limit	NT: Not tested
NA: Test not required	RPD: Relative Percent Difference	NA: Test not required
<: Less than	>: Greater than	LCS: Laboratory Control Sample

Quality Control Definitions

Blank: This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

Duplicate: This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

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Laboratory Acceptance Criteria

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Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.

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Envirolab Services Pty Ltd
12 Ashley Street
Chatswood
NSW 2067

Page 1 of 1

only 4 samples of FC004

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 43182
PROJECT NAME: Green Square Block 5A
SEND REPORT TO: N Cussen SEND INVOICE TO: G Ng
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS: Chris
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: nussen@jbsg.com.au

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	COMBO SUITES: SOIL - 4	SOIL – 4L	SOIL – 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER – 1m	WATER – 2L	WATER – 3L	Asbestos (ID)	NOTES:
1	FC001 0.2-0.3	Soil	13/1/14		Bag											X		
2	FC001 0.8-1.0															X		
3	FC001 1.5-1.7															X		
4	FC002 0.2-0.3															X		
5	FC002 0.8-1.0															X		
6	FC002 1.8-2.0															X		
7	FC002 2.8-3.0															X		
8	FC002 4.4-5.0															X		
9	FC003 0.2-0.3															X		
10	FC003 0.8-1.0															X		
11	FC003 1.8-2.0															X		
12	FC003 2.8-3.0															X		
13	FC003 3.5-3.7															X		
	FC004 0.2-0.3															X		
	FC004 0.8-1.0															X		
	FC004 1.5-1.7															X		
	FC004 2.8-3.0															X		
14	FC005 0.2-0.3															X		

This is it

ENVIROLAB GROUP
Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200
Job No: 103653
Date Received: 16/01/14
Time Received: 17:45
Received by: AW
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Nathan DATE: 14 01 14	CONSIGNMENT NOTE NO.	NAME: ~~Sophie~~ A.Weir 16/01/14	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: ELS	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Envirolab

ENVIROLAB GROUP
Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200
Job No: 103652
Date Received: 16/01
Time Received: 15:30
Received by: SS
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

PICKFORD & RHYDER CONSULTING PTY LTD
ABN 17 105 546 076
Occupational Hygiene Measurements and Solutions.

PO Box 1422 Lane Cove 1595
Rear - 244 Burns Bay Road
Lane Cove NSW Australia
Phone: (02) 9418 9151
Fax: (02) 9418 9150

21 January 2014

N. Cussen
JBS&G (NSW & WA) Pty Ltd
Level 1,50 Margaret Street
SYDNEY NSW 2000

CERTIFICATE OF ANALYSIS – ASBESTOS IDENTIFICATION

YOUR REFERENCE/JOB No: 43182
TYPE OF SAMPLES: Bulk samples - as received from Envirolab Services
SITE LOCATION: Green Square, Block 5A
DATE SAMPLED: 14 January 2014 **DATE RECEIVED:** 16 January 2014
OUR REFERENCE: 77812/13-ID

TEST METHOD: Soil samples examined by Stereomicroscopy and Polarized Light Microscopy (with Dispersion Staining) in accordance with AS 4964-2004: - 'Method for the qualitative identification of asbestos in bulk samples' as outlined in Laboratory Method ID/1. The Reporting Limit for the results in this Certificate is numerically equal to the lowest detection limit of 0.1 g/kg. Trace asbestos analysis has been conducted on each sample, which is generally designed to detect 'respirable' asbestos fibres (ie less than 3 micrometres in width) distributed throughout the sample.

Sample No	*Lab No*	*Sample Information*	*Analysis Result*	*Description*
QC09-A	77812	Soil sample as received	Chrysotile asbestos detected	The sample was a brown soil with stones, of total approximate weight 1131 g, in which asbestos fibres and organic fibres were detected in the +2 mm fraction. Chrysotile asbestos fibres were detected in a fibrous bundle measuring (2 x 0.01x 0.001 mm) in the dimensions. No asbestos fibres were detected in a representative sub-sample of the –2 mm fraction. No asbestos fibres were found at the Reporting Limit of 0.1g/kg. No asbestos fibres were detected in the trace analysis.
QC10-A	77813	Soil sample as received	no asbestos detected	The sample was a brown, sandy soil with stones and glass fragments, of total approximate weight 1131 g, in which organic fibres were detected in the -2mm fraction. No asbestos fibres were detected in the +2 mm fraction. No asbestos fibres were detected in a representative sub-sample of the –2 mm fraction. No asbestos fibres were found at the Reporting Limit of 0.1g/kg.

All sampling and site work has been undertaken by the client - the analytical procedures and results reported on this Certificate have been conducted by Pickford & Rhyder Consulting.

Sampling is not covered by the scope of accreditation.

Analysed and reported by:

Gary Conaty,
Approved Identifier and Signatory.

NATA
ACCREDITED FOR TECHNICAL COMPETENCE

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Accreditation number 2515

Envirolab Services Pty Ltd
12 Ashley Street
Chatswood
NSW 2067

For P&R

Page 1 of 1

77812/13

JBS&G

CHAIN OF CUSTODY

PROJECT NO.: 43182
PROJECT NAME: Green Square Block 5A
SEND REPORT TO: N Cousin SEND INVOICE TO: G Ng
DATE NEEDED BY: STD TAT
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

P&R

LABORATORY BATCH NO.:
SAMPLERS: Chris B
PHONE: SYDNEY 02 82450300 – PERTH 08 9488 0100 EMAIL: ncousin@jbsg.com.au
QC LEVEL: NEPM (2013)

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	COMBO SUITES: SOIL - 4	SOIL – 4L	SOIL – 4A	SOIL - 5	SOIL 5A	SOIL 5B	SOIL - 12	WATER – 1m	WATER – 2L	WATER – 3L	Asbestos (fines)	NOTES:
QC09-A	Soil	13.1.14		Bag												Y	
~~QC09-A~~ QC10-A	↓	↓		↓												Y	

RELINQUISHED BY:
NAME: Nathan DATE: 14.01.14
OF: JBS&G
NAME: Sophie DATE: 16/01
OF: ELS

METHOD OF SHIPMENT:
CONSIGNMENT NOTE NO.
TRANSPORT CO.
CONSIGNMENT NOTE NO.
TRANSPORT CO

RECEIVED BY:
NAME: KIM OFGNIAN
DATE: PICKFORD
OF: 16/1/14 1230
NAME:
OF: DATE:

FOR RECEIVING LAB USE ONLY:
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Envirolab

Soil Combos
3 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/
3A – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/)/Asbestos
4 – TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4L - TRH/BTEX/PAH(Trace Level)/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)
4A - TRH/BTEX/PAH/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Phenolics (Total)/Asbestos

Soil Combos continued
5 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
5A - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/Asbestos
5B - TRH/BTEX/PAH/OCP/OPP/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg
12 - TRH/BTEX/PAH/OCP/PCB/As,Cd,Cr,Cu,Ni,Pb,Zn,Hg/TCLP(PAH & 6 Metals)

Water Combos
1m - TRH/BTEX/ 8 metals
2L - TRH/BTEX/PAH low/Pb
3L - TRH/BTEX/PAH/8 metals

ANALYTICAL REPORT

9 February 2011

Coffey Environments Pty Ltd
Level 1, 3 Rider Boulevard
RHODES
NSW 2138

Attention: **Nalin De Silva**

Your Reference: ENAURHOD04108AA

Our Reference: SE85031 Samples: 56 Soils, 2 Waters
Received: 31/01/2011

Preliminary Report Sent: Not Issued

These samples were analysed in accordance with your written instructions.

Asbestos ID and Quantification results for sample ids DUP1 and QC2-Refer to SGS report SE85031A.

For and on Behalf of:
SGS ENVIRONMENTAL SERVICES

Sample Receipt:	Angela Mamalicos	AU.SampleReceipt.Sydney@sgs.com
Production Manager:	Huong Crawford	Huong.Crawford@sgs.com

Results Approved and/or Authorised by:

Edward Ibrahim
Laboratory Manager

Ly Kim Ha
Organics Signatory

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Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

BTEX in Soil Our Reference: Your Reference Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85031-3 R1 0.9-1.0 Soil 31/01/2011	SE85031-5 R1 2.9-3.0 Soil 31/01/2011	SE85031-8 R2 0.4-0.5 Soil 31/01/2011	SE85031-10 R2 1.9-2.0 Soil 31/01/2011	SE85031-14 R3 0.4-0.5 Soil 31/01/2011
Date Extracted (BTEX)		7/02/2011	7/02/2011	7/02/2011	7/02/2011	7/02/2011
Date Analysed (BTEX)		8/02/2011	8/02/2011	8/02/2011	8/02/2011	8/02/2011
Benzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
BTEX Surrogate (%)	%	91	61	76	73	81

BTEX in Soil Our Reference: Your Reference Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85031-15 R3 0.9-1.0 Soil 31/01/2011	SE85031-21 R5 0.9-1.0 Soil 31/01/2011	SE85031-24 R5 3.9-4.0 Soil 31/01/2011	SE85031-27 R4 0.9-1.0 Soil 31/01/2011	SE85031-30 R4 3.9-4.0 Soil 31/01/2011
Date Extracted (BTEX)		7/02/2011	7/02/2011	7/02/2011	7/02/2011	7/02/2011
Date Analysed (BTEX)		8/02/2011	8/02/2011	8/02/2011	8/02/2011	8/02/2011
Benzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
BTEX Surrogate (%)	%	86	74	74	84	78

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BTEX in Soil Our Reference: Your Reference Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85031-32 R6 0.4-0.5 Soil 31/01/2011	SE85031-36 R6 3.9-4.0 Soil 31/01/2011	SE85031-43 BH3 (a) 0.5-0.6 Soil 31/01/2011	SE85031-46 BH3 0.5-0.6 Soil 31/01/2011	SE85031-47 BH3 1.0-1.1 Soil 31/01/2011
Date Extracted (BTEX)		7/02/2011	7/02/2011	7/02/2011	7/02/2011	7/02/2011
Date Analysed (BTEX)		8/02/2011	8/02/2011	8/02/2011	8/02/2011	8/02/2011
Benzene	mg/kg	<0.1	<0.1	0.6	<0.1	<0.1
Toluene	mg/kg	<0.1	<0.1	2.3	<0.1	<0.1
Ethylbenzene	mg/kg	<0.1	<0.1	1.5	<0.1	<0.1
Total Xylenes	mg/kg	<0.3	<0.3	9.2	<0.3	<0.3
BTEX Surrogate (%)	%	68	76	94	68	81

BTEX in Soil Our Reference: Your Reference Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85031-52 DUP 1 - Soil 31/01/2011	SE85031-54 QC2 - Soil 31/01/2011
Date Extracted (BTEX)		7/02/2011	7/02/2011
Date Analysed (BTEX)		8/02/2011	8/02/2011
Benzene	mg/kg	0.7	<0.1
Toluene	mg/kg	3.0	<0.1
Ethylbenzene	mg/kg	1.6	<0.1
Total Xylenes	mg/kg	9.4	<0.3
BTEX Surrogate (%)	%	90	115

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TRH in soil with C6-C9 by P/T Our Reference: Your Reference Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85031-3 R1 0.9-1.0 Soil 31/01/2011	SE85031-5 R1 2.9-3.0 Soil 31/01/2011	SE85031-8 R2 0.4-0.5 Soil 31/01/2011	SE85031-10 R2 1.9-2.0 Soil 31/01/2011	SE85031-14 R3 0.4-0.5 Soil 31/01/2011
Date Extracted (TRH C6-C9 PT)		7/02/2011	7/02/2011	7/02/2011	7/02/2011	7/02/2011
Date Analysed (TRH C6-C9 PT)		8/02/2011	8/02/2011	8/02/2011	8/02/2011	8/02/2011
TRH C_6 - C_9 P&T	mg/kg	<20	<20	<20	<20	<20
Date Extracted (TRH C10-C36)		7/02/2011	7/02/2011	7/02/2011	7/02/2011	7/02/2011
Date Analysed (TRH C10-C36)		7/02/2011	7/02/2011	7/02/2011	7/02/2011	7/02/2011
TRH C_{10} - C_{14}	mg/kg	<20	<20	<20	<20	<20
TRH C_{15} - C_{28}	mg/kg	110	<50	91	300	<50
TRH C_{29} - C_{36}	mg/kg	190	<50	<50	190	<50

TRH in soil with C6-C9 by P/T Our Reference: Your Reference Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85031-15 R3 0.9-1.0 Soil 31/01/2011	SE85031-21 R5 0.9-1.0 Soil 31/01/2011	SE85031-24 R5 3.9-4.0 Soil 31/01/2011	SE85031-27 R4 0.9-1.0 Soil 31/01/2011	SE85031-30 R4 3.9-4.0 Soil 31/01/2011
Date Extracted (TRH C6-C9 PT)		7/02/2011	7/02/2011	7/02/2011	7/02/2011	7/02/2011
Date Analysed (TRH C6-C9 PT)		8/02/2011	8/02/2011	8/02/2011	8/02/2011	8/02/2011
TRH C_6 - C_9 P&T	mg/kg	<20	<20	<20	<20	<20
Date Extracted (TRH C10-C36)		7/02/2011	7/02/2011	7/02/2011	7/02/2011	7/02/2011
Date Analysed (TRH C10-C36)		7/02/2011	7/02/2011	7/02/2011	7/02/2011	7/02/2011
TRH C_{10} - C_{14}	mg/kg	<20	<20	<20	<20	<20
TRH C_{15} - C_{28}	mg/kg	<50	110	<50	<50	160
TRH C_{29} - C_{36}	mg/kg	<50	<50	<50	<50	85

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TRH in soil with C6-C9 by P/T Our Reference: Your Reference Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85031-32 R6 0.4-0.5 Soil 31/01/2011	SE85031-36 R6 3.9-4.0 Soil 31/01/2011	SE85031-43 BH3 (a) 0.5-0.6 Soil 31/01/2011	SE85031-46 BH3 0.5-0.6 Soil 31/01/2011	SE85031-47 BH3 1.0-1.1 Soil 31/01/2011
Date Extracted (TRH C6-C9 PT)		7/02/2011	7/02/2011	7/02/2011	7/02/2011	7/02/2011
Date Analysed (TRH C6-C9 PT)		8/02/2011	8/02/2011	8/02/2011	8/02/2011	8/02/2011
TRH C_6 - C_9 P&T	mg/kg	<20	<20	22	<20	<20
Date Extracted (TRH C10-C36)		7/02/2011	7/02/2011	7/02/2011	7/02/2011	7/02/2011
Date Analysed (TRH C10-C36)		7/02/2011	7/02/2011	7/02/2011	7/02/2011	7/02/2011
TRH C_{10} - C_{14}	mg/kg	<20	<20	270	<20	<20
TRH C_{15} - C_{28}	mg/kg	88	<50	180	<50	<50
TRH C_{29} - C_{36}	mg/kg	<50	<50	<50	60	<50

TRH in soil with C6-C9 by P/T Our Reference: Your Reference Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85031-52 DUP 1 - Soil 31/01/2011	SE85031-54 QC2 - Soil 31/01/2011
Date Extracted (TRH C6-C9 PT)		7/02/2011	7/02/2011
Date Analysed (TRH C6-C9 PT)		8/02/2011	8/02/2011
TRH C_6 - C_9 P&T	mg/kg	23	<20
Date Extracted (TRH C10-C36)		7/02/2011	7/02/2011
Date Analysed (TRH C10-C36)		7/02/2011	7/02/2011
TRH C_{10} - C_{14}	mg/kg	270	<20
TRH C_{15} - C_{28}	mg/kg	200	160
TRH C_{29} - C_{36}	mg/kg	99	83

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PAHs in Soil Our Reference: Your Reference Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85031-3 R1 0.9-1.0 Soil 31/01/2011	SE85031-5 R1 2.9-3.0 Soil 31/01/2011	SE85031-8 R2 0.4-0.5 Soil 31/01/2011	SE85031-10 R2 1.9-2.0 Soil 31/01/2011	SE85031-14 R3 0.4-0.5 Soil 31/01/2011
Date Extracted		7/02/2011	7/02/2011	7/02/2011	7/02/2011	7/02/2011
Date Analysed		8/02/2011	8/02/2011	8/02/2011	8/02/2011	8/02/2011
Naphthalene	mg/kg	<0.10	0.18	0.13	0.47	<0.10
Acenaphthylene	mg/kg	<0.10	0.24	0.30	1.4	0.25
Acenaphthene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Fluorene	mg/kg	<0.10	<0.10	0.20	0.30	<0.10
Phenanthrene	mg/kg	0.28	0.52	1.8	5.2	0.79
Anthracene	mg/kg	<0.10	0.24	0.65	1.6	0.37
Fluoranthene	mg/kg	0.40	1.3	3.3	9.6	1.8
Pyrene	mg/kg	0.43	1.5	3.3	10	1.9
Benzo[*a*]anthracene	mg/kg	0.38	1.3	2.9	9.2	1.7
Chrysene	mg/kg	0.22	0.75	1.3	4.9	0.89
Benzo[*b*]fluoranthene	mg/kg	0.3	1.4	2.7	9.8	1.7
Benzo[*k*]fluoranthene	mg/kg	0.11	0.47	0.62	2.0	0.48
Benzo[*a*]pyrene	mg/kg	0.22	0.96	1.8	6.5	1.2
Indeno[*123-cd*]pyrene	mg/kg	0.11	0.48	0.96	3.9	0.60
Dibenzo[*ah*]anthracene	mg/kg	<0.10	0.13	0.24	1.1	<0.10
Benzo[*ghi*]perylene	mg/kg	0.18	0.65	1.3	4.9	0.87
Total PAHs (sum)	mg/kg	<3.28	<10.34	<21.60	<70.99	<13.01
Nitrobenzene-d5	%	119	98	106	92	94
2-Fluorobiphenyl	%	106	104	109	99	97
p -Terphenyl-*d14*	%	99	100	108	103	97

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PAHs in Soil Our Reference: Your Reference Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85031-15 R3 0.9-1.0 Soil 31/01/2011	SE85031-21 R5 0.9-1.0 Soil 31/01/2011	SE85031-24 R5 3.9-4.0 Soil 31/01/2011	SE85031-27 R4 0.9-1.0 Soil 31/01/2011	SE85031-30 R4 3.9-4.0 Soil 31/01/2011
Date Extracted		7/02/2011	7/02/2011	7/02/2011	7/02/2011	7/02/2011
Date Analysed		8/02/2011	8/02/2011	8/02/2011	8/02/2011	8/02/2011
Naphthalene	mg/kg	0.13	0.21	<0.10	<0.10	0.10
Acenaphthylene	mg/kg	0.27	0.79	<0.10	<0.10	0.45
Acenaphthene	mg/kg	<0.10	0.19	<0.10	<0.10	0.21
Fluorene	mg/kg	0.17	0.40	<0.10	<0.10	0.32
Phenanthrene	mg/kg	1.3	4.5	0.31	<0.10	3.5
Anthracene	mg/kg	0.52	1.2	0.12	<0.10	1.3
Fluoranthene	mg/kg	2.1	5.9	0.71	0.22	5.8
Pyrene	mg/kg	2.1	5.5	0.72	0.22	5.7
Benzo[*a*]anthracene	mg/kg	1.7	4.5	0.48	0.16	4.5
Chrysene	mg/kg	0.85	2.3	0.31	0.12	2.0
Benzo[*b*]fluoranthene	mg/kg	1.7	3.7	0.5	0.2	3.5
Benzo[*k*]fluoranthene	mg/kg	0.47	0.92	0.12	<0.10	1.2
Benzo[*a*]pyrene	mg/kg	1.2	2.6	0.31	0.14	2.7
Indeno[*123-cd*]pyrene	mg/kg	0.65	1.3	0.14	<0.10	1.4
Dibenzo[*ah*]anthracene	mg/kg	<0.10	0.37	<0.10	<0.10	0.33
Benzo[*ghi*]perylene	mg/kg	1.0	1.6	0.18	0.10	1.8
Total PAHs (sum)	mg/kg	<14.38	36	<4.42	<2.02	35
Nitrobenzene-d5	%	100	75	74	86	73
2-Fluorobiphenyl	%	101	89	72	82	74
p -Terphenyl-*d14*	%	98	99	96	91	105

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PAHs in Soil Our Reference:	UNITS	SE85031-32	SE85031-36	SE85031-43	SE85031-46	SE85031-47
Your Reference	----------	R6	R6	BH3 (a)	BH3	BH3
Depth	----------	0.4-0.5	3.9-4.0	0.5-0.6	0.5-0.6	1.0-1.1
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Date Sampled		31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Date Extracted		7/02/2011	7/02/2011	7/02/2011	7/02/2011	7/02/2011
Date Analysed		8/02/2011	8/02/2011	8/02/2011	8/02/2011	8/02/2011
Naphthalene	mg/kg	<0.10	<0.10	7.9	<0.10	<0.10
Acenaphthylene	mg/kg	0.30	0.13	<0.10	<0.10	<0.10
Acenaphthene	mg/kg	0.28	0.11	<0.10	<0.10	<0.10
Fluorene	mg/kg	0.42	0.15	0.14	<0.10	<0.10
Phenanthrene	mg/kg	3.4	1.3	0.34	<0.10	<0.10
Anthracene	mg/kg	1.1	0.51	<0.10	<0.10	<0.10
Fluoranthene	mg/kg	4.1	2.3	0.13	<0.10	0.10
Pyrene	mg/kg	3.9	2.2	0.12	0.19	0.13
Benzo[*a*]anthracene	mg/kg	2.8	1.2	<0.10	<0.10	<0.10
Chrysene	mg/kg	1.3	0.70	<0.10	<0.10	<0.10
Benzo[*b*]fluoranthene	mg/kg	2.5	1	<0.1	<0.1	<0.1
Benzo[*k*]fluoranthene	mg/kg	0.79	0.33	<0.10	<0.10	<0.10
Benzo[*a*]pyrene	mg/kg	1.7	0.84	<0.10	<0.10	<0.10
Indeno[*123-cd*]pyrene	mg/kg	0.91	0.41	<0.10	<0.10	<0.10
Dibenzo[*ah*]anthracene	mg/kg	0.21	<0.10	<0.10	<0.10	<0.10
Benzo[*ghi*]perylene	mg/kg	1.2	0.57	<0.10	<0.10	<0.10
Total PAHs (sum)	mg/kg	<25.13	<11.92	<9.78	<1.69	<1.63
Nitrobenzene-d5	%	109	119	117	127	113
2-Fluorobiphenyl	%	105	103	106	108	98
p -Terphenyl-*d14*	%	99	94	94	96	91

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PAHs in Soil Our Reference: Your Reference Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85031-52 DUP 1 - Soil 31/01/2011	SE85031-54 QC2 - Soil 31/01/2011
Date Extracted		7/02/2011	7/02/2011
Date Analysed		8/02/2011	8/02/2011
Naphthalene	mg/kg	8.0	0.13
Acenaphthylene	mg/kg	<0.10	0.70
Acenaphthene	mg/kg	<0.10	<0.10
Fluorene	mg/kg	0.14	0.11
Phenanthrene	mg/kg	0.40	2.5
Anthracene	mg/kg	<0.10	0.94
Fluoranthene	mg/kg	0.12	5.2
Pyrene	mg/kg	0.12	5.3
Benzo[*a*]anthracene	mg/kg	<0.10	5.2
Chrysene	mg/kg	<0.10	2.6
Benzo[*b*]fluoranthene	mg/kg	<0.1	4.5
Benzo[*k*]fluoranthene	mg/kg	<0.10	1.3
Benzo[*a*]pyrene	mg/kg	<0.10	3.3
Indeno[*123-cd*]pyrene	mg/kg	<0.10	1.8
Dibenzo[*ah*]anthracene	mg/kg	<0.10	0.48
Benzo[*ghi*]perylene	mg/kg	<0.10	2.2
Total PAHs (sum)	mg/kg	<9.85	<36.44
Nitrobenzene-d5	%	119	119
2-Fluorobiphenyl	%	105	110
p -Terphenyl-*d14*	%	93	104

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Metals in Soil by ICP-OES Our Reference:	UNITS	SE85031-3	SE85031-5	SE85031-8	SE85031-10	SE85031-14
Your Reference	----------	R1	R1	R2	R2	R3
Depth	----------	0.9-1.0	2.9-3.0	0.4-0.5	1.9-2.0	0.4-0.5
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Date Sampled		31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Date Extracted (Metals)		9/02/2011	8/02/2011	8/02/2011	8/02/2011	8/02/2011
Date Analysed (Metals)		9/02/2011	8/02/2011	8/02/2011	8/02/2011	8/02/2011
Arsenic	mg/kg	<3	6	16	45	6
Cadmium	mg/kg	<0.3	<0.3	1.1	1.5	<0.3
Chromium	mg/kg	5.9	13	26	160	20
Copper	mg/kg	23	27	270	1,600	6.1
Lead	mg/kg	21	190	1,900	6,100	43
Nickel	mg/kg	16	6.7	52	38	3.6
Zinc	mg/kg	52	78	2,000	730	19

Metals in Soil by ICP-OES Our Reference:	UNITS	SE85031-15	SE85031-21	SE85031-24	SE85031-27	SE85031-30
Your Reference	----------	R3	R5	R5	R4	R4
Depth	----------	0.9-1.0	0.9-1.0	3.9-4.0	0.9-1.0	3.9-4.0
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Date Sampled		31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Date Extracted (Metals)		8/02/2011	8/02/2011	8/02/2011	8/02/2011	8/02/2011
Date Analysed (Metals)		8/02/2011	8/02/2011	8/02/2011	8/02/2011	8/02/2011
Arsenic	mg/kg	5	13	7	<3	5
Cadmium	mg/kg	<0.3	0.6	0.93	<0.3	<0.3
Chromium	mg/kg	13	13	12	9.7	9.2
Copper	mg/kg	37	68	180	11	36
Lead	mg/kg	25	400	320	390	240
Nickel	mg/kg	37	16	19	2.9	6.3
Zinc	mg/kg	45	270	410	23	74

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Metals in Soil by ICP-OES Our Reference: Your Reference Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85031-32 R6 0.4-0.5 Soil 31/01/2011	SE85031-36 R6 3.9-4.0 Soil 31/01/2011	SE85031-43 BH3 (a) 0.5-0.6 Soil 31/01/2011	SE85031-46 BH3 0.5-0.6 Soil 31/01/2011	SE85031-47 BH3 1.0-1.1 Soil 31/01/2011
Date Extracted (Metals)		8/02/2011	8/02/2011	8/02/2011	8/02/2011	8/02/2011
Date Analysed (Metals)		8/02/2011	8/02/2011	8/02/2011	8/02/2011	8/02/2011
Arsenic	mg/kg	4	5	<3	4	4
Cadmium	mg/kg	<0.3	0.3	1.2	<0.3	0.4
Chromium	mg/kg	4.2	6.0	4.6	8.0	8.4
Copper	mg/kg	18	42	36	60	67
Lead	mg/kg	39	180	84	20	67
Nickel	mg/kg	2.2	4.8	6.8	14	12
Zinc	mg/kg	65	200	77	60	160

Metals in Soil by ICP-OES Our Reference: Your Reference Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85031-52 DUP 1 - Soil 31/01/2011	SE85031-54 QC2 - Soil 31/01/2011
Date Extracted (Metals)		8/02/2011	8/02/2011
Date Analysed (Metals)		8/02/2011	8/02/2011
Arsenic	mg/kg	3	5
Cadmium	mg/kg	0.8	0.5
Chromium	mg/kg	6.4	22
Copper	mg/kg	39	84
Lead	mg/kg	83	670
Nickel	mg/kg	8.2	10
Zinc	mg/kg	83	370

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Mercury Cold Vapor/Hg Analyser Our Reference: Your Reference Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85031-3 R1 0.9-1.0 Soil 31/01/2011	SE85031-5 R1 2.9-3.0 Soil 31/01/2011	SE85031-8 R2 0.4-0.5 Soil 31/01/2011	SE85031-10 R2 1.9-2.0 Soil 31/01/2011	SE85031-14 R3 0.4-0.5 Soil 31/01/2011
Date Extracted (Mercury)		8/02/2011	8/02/2011	8/02/2011	8/02/2011	8/02/2011
Date Analysed (Mercury)		8/02/2011	8/02/2011	8/02/2011	8/02/2011	8/02/2011
Mercury	mg/kg	0.09	0.14	0.29	0.37	0.12

Mercury Cold Vapor/Hg Analyser Our Reference: Your Reference Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85031-15 R3 0.9-1.0 Soil 31/01/2011	SE85031-21 R5 0.9-1.0 Soil 31/01/2011	SE85031-24 R5 3.9-4.0 Soil 31/01/2011	SE85031-27 R4 0.9-1.0 Soil 31/01/2011	SE85031-30 R4 3.9-4.0 Soil 31/01/2011
Date Extracted (Mercury)		8/02/2011	8/02/2011	8/02/2011	8/02/2011	8/02/2011
Date Analysed (Mercury)		8/02/2011	8/02/2011	8/02/2011	8/02/2011	8/02/2011
Mercury	mg/kg	0.05	0.73	0.57	0.12	0.42

Mercury Cold Vapor/Hg Analyser Our Reference: Your Reference Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85031-32 R6 0.4-0.5 Soil 31/01/2011	SE85031-36 R6 3.9-4.0 Soil 31/01/2011	SE85031-43 BH3 (a) 0.5-0.6 Soil 31/01/2011	SE85031-46 BH3 0.5-0.6 Soil 31/01/2011	SE85031-47 BH3 1.0-1.1 Soil 31/01/2011
Date Extracted (Mercury)		8/02/2011	8/02/2011	8/02/2011	8/02/2011	8/02/2011
Date Analysed (Mercury)		8/02/2011	8/02/2011	8/02/2011	8/02/2011	8/02/2011
Mercury	mg/kg	0.10	0.17	<0.05	<0.05	<0.05

Mercury Cold Vapor/Hg Analyser Our Reference: Your Reference Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85031-52 DUP 1 - Soil 31/01/2011	SE85031-54 QC2 - Soil 31/01/2011
Date Extracted (Mercury)		8/02/2011	8/02/2011
Date Analysed (Mercury)		8/02/2011	8/02/2011
Mercury	mg/kg	<0.05	0.25

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Asbestos ID in soil Our Reference:	UNITS	SE85031-3	SE85031-5	SE85031-8	SE85031-10	SE85031-14
Your Reference	----------	R1	R1	R2	R2	R3
Depth	----------	0.9-1.0	2.9-3.0	0.4-0.5	1.9-2.0	0.4-0.5
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Date Sampled		31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Date Analysed		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Sample Description		107g soil, rocks	123g soil, rocks	90g soil, rocks	49g soil, rocks	85g soil, rocks
Asbestos ID in soil	-	No asbestos detected Organic fibres detected	Chrysotile asbestos detected Organic fibres detected	Chrysotile asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected

Asbestos ID in soil Our Reference:	UNITS	SE85031-15	SE85031-21	SE85031-24	SE85031-27	SE85031-30
Your Reference	----------	R3	R5	R5	R4	R4
Depth	----------	0.9-1.0	0.9-1.0	3.9-4.0	0.9-1.0	3.9-4.0
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Date Sampled		31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Date Analysed		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Sample Description		87g soil, rocks	98g soil, rocks	137g soil, rocks	128g soil, rocks	154g soil, rocks
Asbestos ID in soil	-	No asbestos detected Organic fibres detected	Chrysotile asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected	Chrysotile asbestos detected Organic fibres detected	Chrysotile asbestos detected Organic fibres detected

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Asbestos ID in soil Our Reference: Your Reference Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85031-32 R6 0.4-0.5 Soil 31/01/2011	SE85031-36 R6 3.9-4.0 Soil 31/01/2011	SE85031-43 BH3 (a) 0.5-0.6 Soil 31/01/2011	SE85031-46 BH3 0.5-0.6 Soil 31/01/2011	SE85031-47 BH3 1.0-1.1 Soil 31/01/2011
Date Analysed		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Sample Description		118g soil, rocks	59g clay, soil, rocks	44g soil, rocks	64g clay, soil, rocks	25g soil, rocks
Asbestos ID in soil	-	No asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected

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BTEX in Water (µg/L) Our Reference: Your Reference Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85031-57 WTS#1 - Water 31/01/2011	SE85031-58 WTB#1 - Water 31/01/2011
Date Extracted (BTEX)		7/02/2011	7/02/2011
Date Analysed (BTEX)		7/02/2011	7/02/2011
Benzene	µg/L	100%	<0.5
Toluene	µg/L	99%	<0.5
Ethylbenzene	µg/L	99%	<0.5
Total Xylenes	µg/L	95%	<1.5
Surrogate	%	84	108

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TRH C6-C9 by P/T ONLY-in water Our Reference: Your Reference Depth Sample Matrix Date Sampled	UNITS ---------- ----------	 SE85031-58 WTB#1 - Water 31/01/2011
Date Extracted (TRH C6-C9 PT)		7/02/2011
Date Analysed (TRH C6-C9 PT)		7/02/2011
TRH C_6 - C_9 P&T in µg/L	µg/L	<40

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Moisture Our Reference:	UNITS	SE85031-3	SE85031-5	SE85031-8	SE85031-10	SE85031-14
Your Reference	----------	R1	R1	R2	R2	R3
Depth	----------	0.9-1.0	2.9-3.0	0.4-0.5	1.9-2.0	0.4-0.5
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Date Sampled		31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Date Analysed (moisture)		8/02/2011	8/02/2011	8/02/2011	8/02/2011	8/02/2011
Moisture	%	8	12	14	13	12

Moisture Our Reference:	UNITS	SE85031-15	SE85031-21	SE85031-24	SE85031-27	SE85031-30
Your Reference	----------	R3	R5	R5	R4	R4
Depth	----------	0.9-1.0	0.9-1.0	3.9-4.0	0.9-1.0	3.9-4.0
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Date Sampled		31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Date Analysed (moisture)		8/02/2011	8/02/2011	8/02/2011	8/02/2011	8/02/2011
Moisture	%	8	14	14	11	12

Moisture Our Reference:	UNITS	SE85031-32	SE85031-36	SE85031-43	SE85031-46	SE85031-47
Your Reference	----------	R6	R6	BH3 (a)	BH3	BH3
Depth	----------	0.4-0.5	3.9-4.0	0.5-0.6	0.5-0.6	1.0-1.1
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Date Sampled		31/01/2011	31/01/2011	31/01/2011	31/01/2011	31/01/2011
Date Analysed (moisture)		8/02/2011	8/02/2011	8/02/2011	8/02/2011	8/02/2011
Moisture	%	9	16	12	15	16

Moisture Our Reference:	UNITS	SE85031-52	SE85031-54
Your Reference	----------	DUP 1	QC2
Depth	----------	-	-
Sample Matrix		Soil	Soil
Date Sampled		31/01/2011	31/01/2011
Date Analysed (moisture)		8/02/2011	8/02/2011
Moisture	%	11	13

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Method ID	Methodology Summary
SEO-018	BTEX / C6-C9 Hydrocarbons - Soil samples are extracted with methanol, purged and concentrated by a purge and trap apparatus, and then analysed using GC/MS technique. Water samples undergo the same analysis without the extraction step. Based on USEPA 5030B and 8260B.
SEO-020	Total Recoverable Hydrocarbons - determined by solvent extraction with dichloromethane / acetone for soils and dichloromethane for waters, followed by instrumentation analysis using GC/FID. Where applicable Solid Phase Extraction Manifold technique is used for aliphatic / aromatic fractionation.
SEO-030	Polynuclear Aromatic Hydrocarbons - determined by solvent extraction with dichloromethane / acetone for soils and dichloromethane for waters, followed by instrumentation analysis using GC/MS SIM mode.
SEM-010	Determination of elements by ICP-OES following appropriate sample preparation / digestion process. Based on USEPA 6010C / APHA 21st Edition, 3120B.
SEM-005	Mercury - determined by Cold-Vapour AAS following appropriate sample preparation or digestion process. Based on APHA 21st Edition, 3112B.
AN602	Analysed using in house method AN602 - Qualitative identification of Asbestos Fibres, Synthetic Mineral Fibres and Organic Fibres in bulk samples (including building materials and soils) using Polarised Light Microscopy and Dispersion Staining Techniques. Our NATA Accreditation does not currently cover the identification of Synthetic Mineral Fibres and Organic Fibres, however, according to new NATA requirements, the reporting of these fibres is compulsory if detected.
AN002	Preparation of soils, sediments and sludges undergo analysis by either air drying, compositing, subsampling and 1:5 soil water extraction where required. Moisture content is determined by drying the sample at 105 ± 5°C.

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QUALITY CONTROL BTEX in Soil	UNITS	LOR	METHOD	Blank
Date Extracted (BTEX)				07/02/11
Date Analysed (BTEX)				08/02/11
Benzene	mg/kg	0.1	SEO-018	<0.1
Toluene	mg/kg	0.1	SEO-018	<0.1
Ethylbenzene	mg/kg	0.1	SEO-018	<0.1
Total Xylenes	mg/kg	0.3	SEO-018	<0.3
BTEX Surrogate (%)	%	0	SEO-018	106

QUALITY CONTROL TRH in soil with C6-C9 by P/T	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (TRH C6-C9 PT)				07/02/11	SE85031-32	7/02/2011 || 7/02/2011	[NR]	[NR]
Date Analysed (TRH C6-C9 PT)				08/02/11	SE85031-32	8/02/2011 || 8/02/2011	[NR]	[NR]
TRH C_6 - C_9 P&T	mg/kg	20	SEO-018	<20	SE85031-32	<20 || [N/T]	[NR]	[NR]
Date Extracted (TRH C10-C36)				7/02/2011	SE85031-32	7/02/2011 || 7/02/2011	SE85031-5	7/02/2011
Date Analysed (TRH C10-C36)				7/02/2011	SE85031-32	7/02/2011 || 7/02/2011	SE85031-5	7/02/2011
TRH C_{10} - C_{14}	mg/kg	20	SEO-020	<20	SE85031-32	<20 || <20	SE85031-5	112%
TRH C_{15} - C_{28}	mg/kg	50	SEO-020	<50	SE85031-32	88 || 140 || RPD: 46	SE85031-5	118%
TRH C_{29} - C_{36}	mg/kg	50	SEO-020	<50	SE85031-32	<50 || <50	SE85031-5	96%

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QUALITY CONTROL PAHs in Soil	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted				07/02/11	SE85031-3	7/02/2011 || 7/02/2011	SE85031-8	07/02/11
Date Analysed				08/02/11	SE85031-3	8/02/2011 || 8/02/2011	SE85031-8	08/02/11
Naphthalene	mg/kg	0.1	SEO-030	<0.10	SE85031-3	<0.10 || <0.10	SE85031-8	90%
Acenaphthylene	mg/kg	0.1	SEO-030	<0.10	SE85031-3	<0.10 || <0.10	SE85031-8	93%
Acenaphthene	mg/kg	0.1	SEO-030	<0.10	SE85031-3	<0.10 || <0.10	SE85031-8	93%
Fluorene	mg/kg	0.1	SEO-030	<0.10	SE85031-3	<0.10 || <0.10	[NR]	[NR]
Phenanthrene	mg/kg	0.1	SEO-030	<0.10	SE85031-3	0.28 || 0.19 || RPD: 38	SE85031-8	81%
Anthracene	mg/kg	0.1	SEO-030	<0.10	SE85031-3	<0.10 || <0.10	SE85031-8	75%
Fluoranthene	mg/kg	0.1	SEO-030	<0.10	SE85031-3	0.40 || 0.38 || RPD: 5	SE85031-8	85%
Pyrene	mg/kg	0.1	SEO-030	<0.10	SE85031-3	0.43 || 0.44 || RPD: 2	SE85031-8	86%
Benzo[*a*]anthracene	mg/kg	0.1	SEO-030	<0.10	SE85031-3	0.38 || 0.42 || RPD: 10	[NR]	[NR]
Chrysene	mg/kg	0.1	SEO-030	<0.10	SE85031-3	0.22 || 0.23 || RPD: 4	[NR]	[NR]
Benzo[*b*]fluoranthene	mg/kg	0.1	SEO-030	<0.1	SE85031-3	0.3 || 0.4 || RPD: 29	[NR]	[NR]
Benzo[*k*]fluoranthene	mg/kg	0.1	SEO-030	<0.10	SE85031-3	0.11 || 0.18 || RPD: 48	[NR]	[NR]
Benzo[*a*]pyrene	mg/kg	0.1	SEO-030	<0.10	SE85031-3	0.22 || 0.29 || RPD: 27	SE85031-8	79%
Indeno[*123-cd*]pyrene	mg/kg	0.1	SEO-030	<0.10	SE85031-3	0.11 || 0.15 || RPD: 31	[NR]	[NR]
Dibenzo[*ah*]anthracene	mg/kg	0.1	SEO-030	<0.10	SE85031-3	<0.10 || <0.10	[NR]	[NR]
Benzo[*ghi*]perylene	mg/kg	0.1	SEO-030	<0.10	SE85031-3	0.18 || 0.25 || RPD: 33	[NR]	[NR]
Total PAHs (sum)	mg/kg	1.6	SEO-030	<2	SE85031-3	<3.28 || <3.58	[NR]	[NR]
Nitrobenzene-d5	%	0	SEO-030	123	SE85031-3	119 || 118 || RPD: 1	SE85031-8	106%
2-Fluorobiphenyl	%	0	SEO-030	123	SE85031-3	106 || 104 || RPD: 2	SE85031-8	100%
p -Terphenyl-*d* 14	%	0	SEO-030	117	SE85031-3	99 || 100 || RPD: 1	SE85031-8	92%

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QUALITY CONTROL Metals in Soil by ICP-OES	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (Metals)				8/02/2011	SE85031-3	9/02/2011 || 9/02/2011	SE85031-5	8/02/2011
Date Analysed (Metals)				8/02/2011	SE85031-3	9/02/2011 || 9/02/2011	SE85031-5	8/02/2011
Arsenic	mg/kg	3	SEM-010	<3	SE85031-3	<3 || <3	SE85031-5	96%
Cadmium	mg/kg	0.3	SEM-010	<0.3	SE85031-3	<0.3 || 0.3	SE85031-5	98%
Chromium	mg/kg	0.3	SEM-010	<0.3	SE85031-3	5.9 || 7.2 || RPD: 20	SE85031-5	96%
Copper	mg/kg	0.5	SEM-010	<0.5	SE85031-3	23 || 25 || RPD: 8	SE85031-5	102%
Lead	mg/kg	1	SEM-010	<1	SE85031-3	21 || 26 || RPD: 21	SE85031-5	101%
Nickel	mg/kg	0.5	SEM-010	<0.5	SE85031-3	16 || 14 || RPD: 13	SE85031-5	94%
Zinc	mg/kg	0.5	SEM-010	<0.5	SE85031-3	52 || 50 || RPD: 4	SE85031-5	94%

QUALITY CONTROL Mercury Cold Vapor/Hg Analyser	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (Mercury)				8/02/2011	SE85031-3	8/02/2011 || 8/02/2011	LCS	8/02/2011
Date Analysed (Mercury)				8/02/2011	SE85031-3	8/02/2011 || 8/02/2011	LCS	8/02/2011
Mercury	mg/kg	0.05	SEM-005	<0.05	SE85031-3	0.09 || 0.14 || RPD: 43	LCS	106%

QUALITY CONTROL Asbestos ID in soil	UNITS	LOR	METHOD	Blank
Date Analysed				[NT]

QUALITY CONTROL BTEX in Water (µg/L)	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (BTEX)				07/02/11	[NT]	[NT]	LCS	07/02/11
Date Analysed (BTEX)				07/02/11	[NT]	[NT]	LCS	07/02/11
Benzene	µg/L	0.5	SEO-018	<0.5	[NT]	[NT]	LCS	102%
Toluene	µg/L	0.5	SEO-018	<0.5	[NT]	[NT]	LCS	101%
Ethylbenzene	µg/L	0.5	SEO-018	<0.5	[NT]	[NT]	LCS	101%
Total Xylenes	µg/L	1.5	SEO-018	<1.5	[NT]	[NT]	LCS	102%
Surrogate	%	0	SEO-018	101	[NT]	[NT]	LCS	74%

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QUALITY CONTROL TRH C6-C9 by P/T ONLY-in water	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (TRH C6-C9 PT)				07/02/11	[NT]	[NT]	LCS	07/02/11
Date Analysed (TRH C6-C9 PT)				07/02/11	[NT]	[NT]	LCS	07/02/11
TRH C_6 - C_9 P&T in µg/L	µg/L	40	SEO-018	<40	[NT]	[NT]	LCS	129%

QUALITY CONTROL Hold sample-**NO test** required	UNITS	LOR	METHOD	Blank
Sample on HOLD		[NT]		[NT]

QUALITY CONTROL Moisture	UNITS	LOR	METHOD	Blank
Date Analysed (moisture)				[NT]
Moisture	%	1	AN002	<1

QUALITY CONTROL BTEX in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (BTEX)		[NT]	[NT]	SE85031-46	07/02/11
Date Analysed (BTEX)		[NT]	[NT]	SE85031-46	08/02/11
Benzene	mg/kg	[NT]	[NT]	SE85031-46	89%
Toluene	mg/kg	[NT]	[NT]	SE85031-46	91%
Ethylbenzene	mg/kg	[NT]	[NT]	SE85031-46	87%
Total Xylenes	mg/kg	[NT]	[NT]	SE85031-46	90%
BTEX Surrogate (%)	%	[NT]	[NT]	SE85031-46	67%

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QUALITY CONTROL TRH in soil with C6-C9 by P/T	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (TRH C6-C9 PT)		SE85031-3	7/02/2011 || 7/02/2011	SE85031-46	07/02/11
Date Analysed (TRH C6-C9 PT)		SE85031-3	8/02/2011 || 8/02/2011	SE85031-46	08/02/11
TRH C_6 - C_9 P&T	mg/kg	SE85031-3	<20 || [N/T]	SE85031-46	96%
Date Extracted (TRH C10-C36)		SE85031-3	7/02/2011 || 7/02/2011	[NR]	[NR]
Date Analysed (TRH C10-C36)		SE85031-3	7/02/2011 || 7/02/2011	[NR]	[NR]
TRH C_{10} - C_{14}	mg/kg	SE85031-3	<20 || <20	[NR]	[NR]
TRH C_{15} - C_{28}	mg/kg	SE85031-3	110 || 85 || RPD: 26	[NR]	[NR]
TRH C_{29} - C_{36}	mg/kg	SE85031-3	190 || 260 || RPD: 31	[NR]	[NR]

QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date Extracted		SE85031-32	7/02/2011 || 7/02/2011
Date Analysed		SE85031-32	8/02/2011 || 8/02/2011
Naphthalene	mg/kg	SE85031-32	<0.10 || <0.10
Acenaphthylene	mg/kg	SE85031-32	0.30 || 0.40 || RPD: 29
Acenaphthene	mg/kg	SE85031-32	0.28 || 0.46 || RPD: 49
Fluorene	mg/kg	SE85031-32	0.42 || 0.85 || RPD: 68
Phenanthrene	mg/kg	SE85031-32	3.4 || 5.9 || RPD: 54
Anthracene	mg/kg	SE85031-32	1.1 || 1.7 || RPD: 43
Fluoranthene	mg/kg	SE85031-32	4.1 || 6.9 || RPD: 51
Pyrene	mg/kg	SE85031-32	3.9 || 6.5 || RPD: 50
Benzo[a]anthracene	mg/kg	SE85031-32	2.8 || 4.1 || RPD: 38
Chrysene	mg/kg	SE85031-32	1.3 || 2.1 || RPD: 47
Benzo[*b*]fluoranthene	mg/kg	SE85031-32	2.5 || 3.2 || RPD: 25

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QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Benzo[*k*]fluoranthene	mg/kg	SE85031-32	0.79 || 1.1 || RPD: 33
Benzo[*a*]pyrene	mg/kg	SE85031-32	1.7 || 2.5 || RPD: 38
Indeno[*123-cd*]pyrene	mg/kg	SE85031-32	0.91 || 1.3 || RPD: 35
Dibenzo[*ah*]anthracene	mg/kg	SE85031-32	0.21 || 0.29 || RPD: 32
Benzo[*ghi*]perylene	mg/kg	SE85031-32	1.2 || 1.8 || RPD: 40
Total PAHs (sum)	mg/kg	SE85031-32	<25.13 || <39.27
Nitrobenzene-d5	%	SE85031-32	109 || 128 || RPD: 16
2-Fluorobiphenyl	%	SE85031-32	105 || 118 || RPD: 12
p -Terphenyl-*d14*	%	SE85031-32	99 || 108 || RPD: 9

QUALITY CONTROL Metals in Soil by ICP-OES	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date Extracted (Metals)		SE85031-32	8/02/2011 || 8/02/2011
Date Analysed (Metals)		SE85031-32	8/02/2011 || 8/02/2011
Arsenic	mg/kg	SE85031-32	4 || 3 || RPD: 29
Cadmium	mg/kg	SE85031-32	<0.3 || <0.3
Chromium	mg/kg	SE85031-32	4.2 || 4.2 || RPD: 0
Copper	mg/kg	SE85031-32	18 || 24 || RPD: 29
Lead	mg/kg	SE85031-32	39 || 38 || RPD: 3
Nickel	mg/kg	SE85031-32	2.2 || 2.7 || RPD: 20
Zinc	mg/kg	SE85031-32	65 || 77 || RPD: 17

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QUALITY CONTROL Mercury Cold Vapor/Hg Analyser	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date Extracted (Mercury)		SE85031-30	8/02/2011 || 8/02/2011
Date Analysed (Mercury)		SE85031-30	8/02/2011 || 8/02/2011
Mercury	mg/kg	SE85031-30	0.42 || 0.55 || RPD: 27

QUALITY CONTROL BTEX in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date Extracted (BTEX)		SE85031-8	7/02/2011 || 7/02/2011
Date Analysed (BTEX)		SE85031-8	8/02/2011 || 8/02/2011
Benzene	mg/kg	SE85031-8	<0.1 || <0.1
Toluene	mg/kg	SE85031-8	<0.1 || <0.1
Ethylbenzene	mg/kg	SE85031-8	<0.1 || <0.1
Total Xylenes	mg/kg	SE85031-8	<0.3 || <0.3
BTEX Surrogate (%)	%	SE85031-8	76 || 76 || RPD: 0

QUALITY CONTROL TRH in soil with C6-C9 by P/T	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date Extracted (TRH C6-C9 PT)		SE85031-8	7/02/2011 || 7/02/2011
Date Analysed (TRH C6-C9 PT)		SE85031-8	8/02/2011 || 8/02/2011
TRH C_6 - C_9 P&T	mg/kg	SE85031-8	<20 || <20
Date Extracted (TRH C10-C36)		SE85031-8	7/02/2011 || 7/02/2011
Date Analysed (TRH C10-C36)		SE85031-8	7/02/2011 || 7/02/2011
TRH C_{10} - C_{14}	mg/kg	SE85031-8	<20 || [N/T]
TRH C_{15} - C_{28}	mg/kg	SE85031-8	91 || [N/T]
TRH C_{29} - C_{36}	mg/kg	SE85031-8	<50 || [N/T]

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QUALITY CONTROL BTEX in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date Extracted (BTEX)		SE85031-43	7/02/2011 || 7/02/2011
Date Analysed (BTEX)		SE85031-43	8/02/2011 || 8/02/2011
Benzene	mg/kg	SE85031-43	0.6 || 0.5 || RPD: 18
Toluene	mg/kg	SE85031-43	2.3 || 2.1 || RPD: 9
Ethylbenzene	mg/kg	SE85031-43	1.5 || 1.2 || RPD: 22
Total Xylenes	mg/kg	SE85031-43	9.2 || 6.7 || RPD: 31
BTEX Surrogate (%)	%	SE85031-43	94 || 93 || RPD: 1

QUALITY CONTROL TRH in soil with C6-C9 by P/T	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date Extracted (TRH C6-C9 PT)		SE85031-43	7/02/2011 || 7/02/2011
Date Analysed (TRH C6-C9 PT)		SE85031-43	8/02/2011 || 8/02/2011
TRH C_6 - C_9 P&T	mg/kg	SE85031-43	22 || <20
Date Extracted (TRH C10-C36)		SE85031-43	7/02/2011 || 7/02/2011
Date Analysed (TRH C10-C36)		SE85031-43	7/02/2011 || 7/02/2011
TRH C_{10} - C_{14}	mg/kg	SE85031-43	270 || [N/T]
TRH C_{15} - C_{28}	mg/kg	SE85031-43	180 || [N/T]
TRH C_{29} - C_{36}	mg/kg	SE85031-43	<50 || [N/T]

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Result Codes

[INS] : Insufficient Sample for this test
[NR] : Not Requested
[NT] : Not tested
[LOR] : Limit of reporting
[RPD] : Relative Percentage Difference
* : Not part of NATA Accreditation
[N/A] : Not Applicable

Report Comments

Sampled by the client

Even after disintegration it can be very difficult, or impossible, to detect the presence of asbestos in some asbestos-containing bulk materials using polarised light microscopy.
This is due to the low grade or small length or diameter of asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials.

Sample #5: 1-3mm length fibre bundle found 3x2x2mm cement sheet fragment.
Sample #8: 1-3mm length fibre bundles x3 found loose in sample.
Sample #21: 1-2mm length fibre bundle found loose in sample and hand picked.
Sample #27: 1-3mm length fibre bundles x3 found loose in sample.
Sample #30: 1-3mm length fibre bundles x5 found loose in sample.
Sample #5, 8, 27, 30: >0.1g/kg.
Sample #21: <0.1g/kg

No respirable fibres detected using trace analysis technique.
Asbestos analysed by Approved Identifier Yusuf Kuthpudin.
Samples analysed as received. Solid samples expressed on a dry weight basis.
Date Organics extraction commenced:
NATA Corporate Accreditation No. 2562, Site No 4354
Note: Test results are not corrected for recovery (excluding Air-toxics and Dioxins/Furans*)
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Quality Control Protocol

Method Blank: An analyte free matrix to which all reagents are added in the same volume or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. A method blank is prepared every 20 samples.
Duplicate: A separate portion of a sample being analysed that is treated the same as the other samples in the batch. One duplicate is processed at least every 10 samples.
Surrogate Spike: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are added to samples before extraction to monitor extraction efficiency and percent recovery in each sample.
Internal Standard: Added to all samples requiring analysis for organics (where relevant) or metals by ICP after the extraction/digestion process; the compounds/elements serve to give a standard of retention time and/or response, which is invariant from run-to-run with the instruments.
Laboratory Control Sample: A known matrix spiked with compound(s) representative of the target analytes. It is used to document laboratory performance. When the results of the matrix spike analysis indicates a potential problem due to the sample matrix itself, the LCS results are used to verify that the laboratory can perform the analysis in a clean matrix.
Matrix Spike: An aliquot of sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

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Quality Acceptance Criteria

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: http://www.au.sgs.com/sgs-mp-au-env-qu-022-qa-qc-plan-en-09.pdf

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ANALYTICAL REPORT

21 February 2011

Coffey Environments Pty Ltd
Level 1, 3 Rider Boulevard
RHODES
NSW 2138

Attention: **Nalin De Silva**

Your Reference: ENAURHOD04108AA - Additional Analysis

Our Reference: SE85031B Samples: 3 Soils
Received: 31/01/2011

Preliminary Report Sent: Not Issued

These samples were analysed in accordance with your written instructions.

For and on Behalf of:
SGS ENVIRONMENTAL SERVICES

Sample Receipt:	Angela Mamalicos	AU.SampleReceipt.Sydney@sgs.com
Production Manager:	Huong Crawford	Huong.Crawford@sgs.com

Results Approved and/or Authorised by:

Ly Kim Ha
Organics Signatory

Huong Crawford
Metals Signatory

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PAHs in TCLP (USEPA 1311) Our Reference: Your Reference Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85031B-30 R4 3.9-4.0 Soil 31/01/2011	SE85031B-32 R6 0.4-0.5 Soil 31/01/2011
Date Extracted (TCLP Preparation)		18/02/2011	18/02/2011
pH of soil for fluid# determ.	pH units	9.10	8.08
Extraction fluid used	-	1	1
pH of soil for fluid # determ. (acid)	pH units	1.64	1.55
pH of final Leachate	pH units	6.23	5.05
Date Extracted		18/02/2011	18/02/2011
Date Analysed		18/02/2011	18/02/2011
Benzo[a]pyrene	µg/L	<0.50	<0.50
Nitrobenzene-d5	%	118	125
2-Fluorobiphenyl	%	96	114
p -Terphenyl-*d14*	%	115	108

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Metals in TCLP Our Reference: Your Reference Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85031B-8 R2 0.4-0.5 Soil 31/01/2011
Date Extracted (TCLP Preparation)		18/02/2011
pH of soil for fluid# determ.	pH units	8.23
pH of soil for fluid # determ. (acid)	pH units	1.64
Extraction fluid used	-	1
pH of final Leachate	pH units	5.44
Date Extracted (Metals)		21/02/2011
Date Analysed (Metals)		21/02/2011
Lead	mg/L	0.11

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Method ID	Methodology Summary
AN006	Toxicity Characteristic Leaching Procedure (TCLP) - Preparation of leachates for assessing the mobility of both organic and inorganic contaminants present in liquid, solid, and multiphase wastes. Based on USEPA 1311. For volatile analytes, Zero-Headspace Extraction Vessel (ZHE) is used. This method also meets the requirements of Australian Standard Leaching Procedure (ASLP) AS 4439.3-1997 Part 3.
AN101	pH - Measured using pH meter and electrode based on APHA 21st Edition, 4500-H+. For water analyses the results reported are indicative only as the sample holding time requirement specified in APHA was not met (APHA requires that the pH of the samples are to be measured within 15 minutes after sampling).
SEO-030	Polynuclear Aromatic Hydrocarbons - determined by solvent extraction with dichloromethane / acetone for soils and dichloromethane for waters, followed by instrumentation analysis using GC/MS SIM mode. Total PAH is the sum of all positive PAH(s) assuming non-quantifiable PAH(s) (<LOR) do not contribute to the total. LOR for Total PAH is based on 50% of the sum of 16 PAH LORs.
SEM-010	Determination of elements by ICP-OES following appropriate sample preparation / digestion process. Based on USEPA 6010C / APHA 21st Edition, 3120B.

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QUALITY CONTROL PAHs in TCLP (USEPA 1311)	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
pH of soil for fluid# determ.	pH units	0	AN101	[NT]	[NT]	[NT]	[NR]	[NR]
Extraction fluid used	-		AN006	1	[NT]	[NT]	[NR]	[NR]
pH of soil for fluid # determ. (acid)	pH units	0	AN101	[NT]	[NT]	[NT]	[NR]	[NR]
pH of final Leachate	pH units	0	AN101	4.93	[NT]	[NT]	[NR]	[NR]
Date Extracted				18/02/2011	[NT]	[NT]	LCS	18/02/2011
Date Analysed				18/02/2011	[NT]	[NT]	LCS	18/02/2011
Benzo[a]pyrene	µg/L	0.5	SEO-030	<0.50	[NT]	[NT]	LCS	100%
Nitrobenzene-d5	%	0	SEO-030	92	[NT]	[NT]	LCS	107%
2-Fluorobiphenyl	%	0	SEO-030	124	[NT]	[NT]	LCS	98%
p -Terphenyl-*d* 14	%	0	SEO-030	122	[NT]	[NT]	LCS	95%

QUALITY CONTROL Metals in TCLP	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
pH of soil for fluid# determ.	pH units	0	AN101	[NT]	[NT]	[NT]	[NR]	[NR]
pH of soil for fluid # determ. (acid)	pH units	0	AN101	[NT]	[NT]	[NT]	[NR]	[NR]
Extraction fluid used	-		AN006	1	[NT]	[NT]	[NR]	[NR]
pH of final Leachate	pH units	0	AN101	4.93	[NT]	[NT]	[NR]	[NR]
Date Extracted (Metals)				21/02/2011	[NT]	[NT]	LCS	21/02/2011
Date Analysed (Metals)				21/02/2011	[NT]	[NT]	LCS	21/02/2011
Lead	mg/L	0.02	SEM-010	<0.02	[NT]	[NT]	LCS	97%

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Result Codes

[INS] : Insufficient Sample for this test
[NR] : Not Requested
[NT] : Not tested
[LOR] : Limit of reporting
[RPD] : Relative Percentage Difference
* : Not part of NATA Accreditation
[N/A] : Not Applicable

Report Comments

Samples analysed as received. Solid samples expressed on a dry weight basis.
Date Organics extraction commenced:
NATA Corporate Accreditation No. 2562, Site No 4354
Note: Test results are not corrected for recovery (excluding Air-toxics and Dioxins/Furans*)
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Quality Control Protocol

Method Blank: An analyte free matrix to which all reagents are added in the same volume or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. A method blank is prepared every 20 samples.
Duplicate: A separate portion of a sample being analysed that is treated the same as the other samples in the batch. One duplicate is processed at least every 10 samples.
Surrogate Spike: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are added to samples before extraction to monitor extraction efficiency and percent recovery in each sample.
Internal Standard: Added to all samples requiring analysis for organics (where relevant) or metals by ICP after the extraction/digestion process; the compounds/elements serve to give a standard of retention time and/or response, which is invariant from run-to-run with the instruments.
Laboratory Control Sample: A known matrix spiked with compound(s) representative of the target analytes. It is used to document laboratory performance. When the results of the matrix spike analysis indicates a potential problem due to the sample matrix itself, the LCS results are used to verify that the laboratory can perform the analysis in a clean matrix.
Matrix Spike: An aliquot of sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Quality Acceptance Criteria

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: http://www.au.sgs.com/sgs-mp-au-env-qu-022-qa-qc-plan-en-09.pdf

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ANALYTICAL REPORT

16 February 2011

Coffey Environments Pty Ltd
Level 1, 3 Rider Boulevard
RHODES
NSW 2138

Attention: **Nalin De Silva**

Your Reference: ENAURHOD04108AA

Our Reference: SE85131 Samples: 129 Soils, 2 Waters
Received: 2/2/11

Preliminary Report Sent: 10/02/11 & 14/02/11

These samples were analysed in accordance with your written instructions.

For and on Behalf of:
SGS ENVIRONMENTAL SERVICES

Sample Receipt:	Angela Mamalicos	AU.SampleReceipt.Sydney@sgs.com
Production Manager:	Huong Crawford	Huong.Crawford@sgs.com

Results Approved and/or Authorised by:

Dong Liang
Quality Manager

Ravee Sivasubramaniam
Asbestos Signatory

Ly Kim Ha
Organics Signatory
Organics Signatory

Huong Crawford
Metals Signatory

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BTEX in Soil Our Reference: Your Reference Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85131-2 R11 0.4-0.5 Soil 1/02/2011	SE85131-4 R11 1.9-2.0 Soil 1/02/2011	SE85131-8 R12 0.4-0.5 Soil 1/02/2011	SE85131-10 R12 1.9-2.0 Soil 1/02/2011	SE85131-15 R14 0.9-1.0 Soil 1/02/2011
Date Extracted (BTEX)		8/02/2011	8/02/2011	8/02/2011	8/02/2011	8/02/2011
Date Analysed (BTEX)		11/02/2011	11/02/2011	11/02/2011	11/02/2011	11/02/2011
Benzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
BTEX Surrogate (%)	%	63	72	68	85	80

BTEX in Soil Our Reference: Your Reference Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85131-16 R14 1.9-2.0 Soil 1/02/2011	SE85131-21 R10 0.9-1.0 Soil 1/02/2011	SE85131-22 R10 1.9-2.0 Soil 1/02/2011	SE85131-27 R35 0.9-1.0 Soil 1/02/2011	SE85131-29 R35 2.9-3.0 Soil 1/02/2011
Date Extracted (BTEX)		8/02/2011	8/02/2011	8/02/2011	8/02/2011	8/02/2011
Date Analysed (BTEX)		11/02/2011	11/02/2011	11/02/2011	11/02/2011	11/02/2011
Benzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
BTEX Surrogate (%)	%	74	71	76	74	61

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BTEX in Soil Our Reference: Your Reference Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85131-31 R9 0.2-0.3 Soil 1/02/2011	SE85131-35 R9 2.9-3.0 Soil 1/02/2011	SE85131-37 R8 0.4-0.5 Soil 2/02/2011	SE85131-39 R8 1.9-2.0 Soil 2/02/2011	SE85131-43 R15 0.4-0.5 Soil 2/02/2011
Date Extracted (BTEX)		8/02/2011	8/02/2011	8/02/2011	8/02/2011	8/02/2011
Date Analysed (BTEX)		11/02/2011	11/02/2011	11/02/2011	11/02/2011	11/02/2011
Benzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
BTEX Surrogate (%)	%	73	73	73	63	69

BTEX in Soil Our Reference: Your Reference Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85131-45 R15 1.9-2.0 Soil 2/02/2011	SE85131-48 R17 0.2-0.3 Soil 2/02/2011	SE85131-52 R17 2.9-3.0 Soil 2/02/2011	SE85131-56 R37 0.9-1.0 Soil 2/02/2011	SE85131-58 R37 2.9-3.0 Soil 2/02/2011
Date Extracted (BTEX)		8/02/2011	8/02/2011	8/02/2011	8/02/2011	8/02/2011
Date Analysed (BTEX)		11/02/2011	11/02/2011	11/02/2011	11/02/2011	11/02/2011
Benzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
BTEX Surrogate (%)	%	88	99	87	89	95

BTEX in Soil Our Reference: Your Reference Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85131-62 R36 0.9-1.0 Soil 2/02/2011	SE85131-64 R36 2.9-3.0 Soil 2/02/2011	SE85131-67 R43 0.4-0.5 Soil 2/02/2011	SE85131-69 R43 1.9-2.0 Soil 2/02/2011	SE85131-74 R17 0.9-1.0 Soil 2/02/2011
Date Extracted (BTEX)		8/02/2011	8/02/2011	8/02/2011	8/02/2011	8/02/2011
Date Analysed (BTEX)		11/02/2011	11/02/2011	11/02/2011	11/02/2011	11/02/2011
Benzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
BTEX Surrogate (%)	%	96	92	96	83	80

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BTEX in Soil Our Reference: Your Reference Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85131-76 R17 2.9-3.0 Soil 2/02/2011	SE85131-80 QC7 - Soil 1/02/2011	SE85131-83 QC10 - Soil 2/02/2011	SE85131-89 BHP7 1.0-1.1 Soil 2/02/2011	SE85131-90 BHP7 2.0-2.1 Soil 2/02/2011
Date Extracted (BTEX)		8/02/2011	8/02/2011	8/02/2011	8/02/2011	8/02/2011
Date Analysed (BTEX)		11/02/2011	11/02/2011	11/02/2011	11/02/2011	11/02/2011
Benzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
BTEX Surrogate (%)	%	92	85	89	80	81

BTEX in Soil Our Reference: Your Reference Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85131-91 BHP7 7.0-7.1 Soil 2/02/2011	SE85131-93 BHP6A 0.5-0.6 Soil 2/02/2011	SE85131-95 BHP6A 2.0-2.1 Soil 2/02/2011	SE85131-102 BHP3 5.5-5.6 Soil 1/02/2011	SE85131-107 BHP3 2.0-2.1 Soil 1/02/2011
Date Extracted (BTEX)		8/02/2011	8/02/2011	8/02/2011	8/02/2011	8/02/2011
Date Analysed (BTEX)		11/02/2011	11/02/2011	11/02/2011	11/02/2011	11/02/2011
Benzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
BTEX Surrogate (%)	%	82	81	77	77	74

BTEX in Soil Our Reference: Your Reference Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85131-109 BHP2 0.5-0.6 Soil 1/02/2011	SE85131-116 BHP3 0.5-0.6 Soil 1/02/2011	SE85131-121 DUP3 - Soil 1/02/2011	SE85131-124 BH2 2.0-2.1 Soil 1/02/2011	SE85131-125 DUP5 - Soil 2/02/2011
Date Extracted (BTEX)		8/02/2011	8/02/2011	8/02/2011	8/02/2011	8/02/2011
Date Analysed (BTEX)		11/02/2011	11/02/2011	11/02/2011	11/02/2011	11/02/2011
Benzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
BTEX Surrogate (%)	%	90	84	84	85	91

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TRH in soil with C6-C9 by P/T Our Reference: Your Reference Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85131-2 R11 0.4-0.5 Soil 1/02/2011	SE85131-4 R11 1.9-2.0 Soil 1/02/2011	SE85131-8 R12 0.4-0.5 Soil 1/02/2011	SE85131-10 R12 1.9-2.0 Soil 1/02/2011	SE85131-15 R14 0.9-1.0 Soil 1/02/2011
Date Extracted (TRH C6-C9 PT)		8/02/2011	8/02/2011	8/02/2011	8/02/2011	8/02/2011
Date Analysed (TRH C6-C9 PT)		11/02/2011	11/02/2011	11/02/2011	11/02/2011	11/02/2011
TRH C_6 - C_9 P&T	mg/kg	<20	<20	<20	<20	<20
Date Extracted (TRH C10-C36)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Date Analysed (TRH C10-C36)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
TRH C_{10} - C_{14}	mg/kg	<20	<20	<20	<20	<20
TRH C_{15} - C_{28}	mg/kg	53	<50	<50	<50	<50
TRH C_{29} - C_{36}	mg/kg	<50	<50	<50	<50	<50

TRH in soil with C6-C9 by P/T Our Reference: Your Reference Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85131-16 R14 1.9-2.0 Soil 1/02/2011	SE85131-21 R10 0.9-1.0 Soil 1/02/2011	SE85131-22 R10 1.9-2.0 Soil 1/02/2011	SE85131-27 R35 0.9-1.0 Soil 1/02/2011	SE85131-29 R35 2.9-3.0 Soil 1/02/2011
Date Extracted (TRH C6-C9 PT)		8/02/2011	8/02/2011	8/02/2011	8/02/2011	8/02/2011
Date Analysed (TRH C6-C9 PT)		11/02/2011	11/02/2011	11/02/2011	11/02/2011	11/02/2011
TRH C_6 - C_9 P&T	mg/kg	<20	<20	<20	<20	<20
Date Extracted (TRH C10-C36)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Date Analysed (TRH C10-C36)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
TRH C_{10} - C_{14}	mg/kg	<20	<20	<20	<20	<20
TRH C_{15} - C_{28}	mg/kg	<50	<50	<50	<50	160
TRH C_{29} - C_{36}	mg/kg	<50	<50	<50	<50	320

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TRH in soil with C6-C9 by P/T Our Reference: Your Reference Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85131-31 R9 0.2-0.3 Soil 1/02/2011	SE85131-35 R9 2.9-3.0 Soil 1/02/2011	SE85131-37 R8 0.4-0.5 Soil 2/02/2011	SE85131-39 R8 1.9-2.0 Soil 2/02/2011	SE85131-43 R15 0.4-0.5 Soil 2/02/2011
Date Extracted (TRH C6-C9 PT)		8/02/2011	8/02/2011	8/02/2011	8/02/2011	8/02/2011
Date Analysed (TRH C6-C9 PT)		11/02/2011	11/02/2011	11/02/2011	11/02/2011	11/02/2011
TRH C_6 - C_9 P&T	mg/kg	<20	<20	<20	<20	<20
Date Extracted (TRH C10-C36)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Date Analysed (TRH C10-C36)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
TRH C_{10} - C_{14}	mg/kg	<20	<20	<20	<20	<20
TRH C_{15} - C_{28}	mg/kg	<50	<50	<50	<50	58
TRH C_{29} - C_{36}	mg/kg	<50	<50	<50	<50	<50

TRH in soil with C6-C9 by P/T Our Reference: Your Reference Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85131-45 R15 1.9-2.0 Soil 2/02/2011	SE85131-48 R17 0.2-0.3 Soil 2/02/2011	SE85131-52 R17 2.9-3.0 Soil 2/02/2011	SE85131-56 R37 0.9-1.0 Soil 2/02/2011	SE85131-58 R37 2.9-3.0 Soil 2/02/2011
Date Extracted (TRH C6-C9 PT)		8/02/2011	8/02/2011	8/02/2011	8/02/2011	8/02/2011
Date Analysed (TRH C6-C9 PT)		11/02/2011	11/02/2011	11/02/2011	11/02/2011	11/02/2011
TRH C_6 - C_9 P&T	mg/kg	<20	<20	<20	<20	<20
Date Extracted (TRH C10-C36)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Date Analysed (TRH C10-C36)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
TRH C_{10} - C_{14}	mg/kg	80	<20	<20	<20	<20
TRH C_{15} - C_{28}	mg/kg	170	<50	<50	<50	<50
TRH C_{29} - C_{36}	mg/kg	<50	<50	<50	<50	<50

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TRH in soil with C6-C9 by P/T						
Our Reference:	UNITS	SE85131-62	SE85131-64	SE85131-67	SE85131-69	SE85131-74
Your Reference	----------	R36	R36	R43	R43	R17
Depth	----------	0.9-1.0	2.9-3.0	0.4-0.5	1.9-2.0	0.9-1.0
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Date Sampled		2/02/2011	2/02/2011	2/02/2011	2/02/2011	2/02/2011
Date Extracted (TRH C6-C9 PT)		8/02/2011	8/02/2011	8/02/2011	8/02/2011	8/02/2011
Date Analysed (TRH C6-C9 PT)		11/02/2011	11/02/2011	11/02/2011	11/02/2011	11/02/2011
TRH C_6 - C_9 P&T	mg/kg	<20	<20	<20	<20	<20
Date Extracted (TRH C10-C36)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Date Analysed (TRH C10-C36)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
TRH C_{10} - C_{14}	mg/kg	<20	<20	30	<20	<20
TRH C_{15} - C_{28}	mg/kg	<50	<50	1,600	<50	<50
TRH C_{29} - C_{36}	mg/kg	<50	<50	910	<50	<50

TRH in soil with C6-C9 by P/T						
Our Reference:	UNITS	SE85131-76	SE85131-80	SE85131-83	SE85131-89	SE85131-90
Your Reference	----------	R17	QC7	QC10	BHP7	BHP7
Depth	----------	2.9-3.0	-	-	1.0-1.1	2.0-2.1
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Date Sampled		2/02/2011	1/02/2011	2/02/2011	2/02/2011	2/02/2011
Date Extracted (TRH C6-C9 PT)		8/02/2011	8/02/2011	8/02/2011	8/02/2011	8/02/2011
Date Analysed (TRH C6-C9 PT)		11/02/2011	11/02/2011	11/02/2011	11/02/2011	11/02/2011
TRH C_6 - C_9 P&T	mg/kg	<20	<20	<20	<20	<20
Date Extracted (TRH C10-C36)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Date Analysed (TRH C10-C36)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
TRH C_{10} - C_{14}	mg/kg	<20	<20	22	<20	100
TRH C_{15} - C_{28}	mg/kg	180	170	130	<50	220
TRH C_{29} - C_{36}	mg/kg	86	76	180	<50	<50

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TRH in soil with C6-C9 by P/T Our Reference: Your Reference Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85131-91 BHP7 7.0-7.1 Soil 2/02/2011	SE85131-93 BHP6A 0.5-0.6 Soil 2/02/2011	SE85131-95 BHP6A 2.0-2.1 Soil 2/02/2011	SE85131-102 BHP3 5.5-5.6 Soil 1/02/2011	SE85131-107 BHP3 2.0-2.1 Soil 1/02/2011
Date Extracted (TRH C6-C9 PT)		8/02/2011	8/02/2011	8/02/2011	8/02/2011	8/02/2011
Date Analysed (TRH C6-C9 PT)		11/02/2011	11/02/2011	11/02/2011	11/02/2011	11/02/2011
TRH C_6 - C_9 P&T	mg/kg	<20	<20	<20	<20	<20
Date Extracted (TRH C10-C36)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Date Analysed (TRH C10-C36)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
TRH C_{10} - C_{14}	mg/kg	<20	<20	<20	<20	<20
TRH C_{15} - C_{28}	mg/kg	390	<50	<50	<50	<50
TRH C_{29} - C_{36}	mg/kg	100	<50	<50	<50	<50

TRH in soil with C6-C9 by P/T Our Reference: Your Reference Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85131-109 BHP2 0.5-0.6 Soil 1/02/2011	SE85131-116 BHP3 0.5-0.6 Soil 1/02/2011	SE85131-121 DUP3 - Soil 1/02/2011	SE85131-124 BH2 2.0-2.1 Soil 1/02/2011	SE85131-125 DUP5 - Soil 2/02/2011
Date Extracted (TRH C6-C9 PT)		8/02/2011	8/02/2011	8/02/2011	8/02/2011	8/02/2011
Date Analysed (TRH C6-C9 PT)		11/02/2011	11/02/2011	11/02/2011	11/02/2011	11/02/2011
TRH C_6 - C_9 P&T	mg/kg	<20	<20	<20	<20	<20
Date Extracted (TRH C10-C36)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Date Analysed (TRH C10-C36)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
TRH C_{10} - C_{14}	mg/kg	<20	<20	<20	<20	<20
TRH C_{15} - C_{28}	mg/kg	200	51	<50	<50	<50
TRH C_{29} - C_{36}	mg/kg	50	<50	<50	<50	<50

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PAHs in Soil Our Reference: Your Reference Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85131-1 R11 0.2-03 Soil 1/02/2011	SE85131-2 R11 0.4-0.5 Soil 1/02/2011	SE85131-4 R11 1.9-2.0 Soil 1/02/2011	SE85131-8 R12 0.4-0.5 Soil 1/02/2011	SE85131-10 R12 1.9-2.0 Soil 1/02/2011
Date Extracted		8/02/2011	8/02/2011	8/02/2011	8/02/2011	8/02/2011
Date Analysed		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Naphthalene	mg/kg	<0.10	0.12	<0.10	<0.10	<0.10
Acenaphthylene	mg/kg	<0.10	0.30	<0.10	<0.10	<0.10
Acenaphthene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Fluorene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Phenanthrene	mg/kg	<0.10	1.2	<0.10	0.18	<0.10
Anthracene	mg/kg	<0.10	0.39	<0.10	<0.10	<0.10
Fluoranthene	mg/kg	<0.10	2.6	<0.10	0.49	0.18
Pyrene	mg/kg	<0.10	2.6	<0.10	0.53	0.21
Benzo[*a*]anthracene	mg/kg	<0.10	1.4	<0.10	0.32	0.12
Chrysene	mg/kg	<0.10	1.1	<0.10	0.26	0.13
Benzo[*b*]fluoranthene	mg/kg	<0.1	1.8	<0.1	0.3	0.1
Benzo[*k*]fluoranthene	mg/kg	<0.10	0.49	<0.10	0.17	<0.10
Benzo[*a*]pyrene	mg/kg	<0.10	1.4	<0.10	0.30	0.12
Indeno[*123-cd*]pyrene	mg/kg	<0.10	0.72	<0.10	0.19	<0.10
Dibenzo[*ah*]anthracene	mg/kg	<0.10	0.11	<0.10	<0.10	<0.10
Benzo[*ghi*]perylene	mg/kg	<0.10	0.65	<0.10	0.19	<0.10
Total PAHs (sum)	mg/kg	<2	<15.08	<2	<3.56	<1.88
Nitrobenzene-d5	%	108	112	116	109	115
2-Fluorobiphenyl	%	97	103	103	98	103
p -Terphenyl-*d14*	%	94	99	97	94	95

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PAHs in Soil Our Reference: Your Reference Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85131-15 R14 0.9-1.0 Soil 1/02/2011	SE85131-16 R14 1.9-2.0 Soil 1/02/2011	SE85131-21 R10 0.9-1.0 Soil 1/02/2011	SE85131-22 R10 1.9-2.0 Soil 1/02/2011	SE85131-24 R10 3.9-4.0 Soil 1/02/2011
Date Extracted		8/02/2011	8/02/2011	8/02/2011	8/02/2011	8/02/2011
Date Analysed		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Naphthalene	mg/kg	<0.10	<0.10	0.15	<0.10	<0.10
Acenaphthylene	mg/kg	<0.10	<0.10	0.25	0.16	<0.10
Acenaphthene	mg/kg	<0.10	<0.10	0.10	<0.10	<0.10
Fluorene	mg/kg	<0.10	<0.10	0.16	0.10	<0.10
Phenanthrene	mg/kg	0.38	0.15	1.7	0.96	0.20
Anthracene	mg/kg	<0.10	<0.10	0.54	0.29	<0.10
Fluoranthene	mg/kg	0.73	0.23	3.2	1.1	0.20
Pyrene	mg/kg	0.72	0.22	3.2	1.0	0.20
Benzo[*a*]anthracene	mg/kg	0.49	0.13	1.8	0.55	0.11
Chrysene	mg/kg	0.37	0.12	1.3	0.41	<0.10
Benzo[*b*]fluoranthene	mg/kg	0.5	0.1	1.9	0.5	<0.1
Benzo[*k*]fluoranthene	mg/kg	0.20	<0.10	0.63	0.20	<0.10
Benzo[*a*]pyrene	mg/kg	0.42	0.12	1.5	0.42	<0.10
Indeno[*123-cd*]pyrene	mg/kg	0.28	<0.10	0.93	0.24	<0.10
Dibenzo[*ah*]anthracene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Benzo[*ghi*]perylene	mg/kg	0.28	<0.10	0.94	0.23	<0.10
Total PAHs (sum)	mg/kg	<5.00	<2.01	<18.45	<6.44	<1.91
Nitrobenzene-d5	%	104	113	111	106	112
2-Fluorobiphenyl	%	97	100	100	99	100
p -Terphenyl-*d14*	%	91	94	93	92	92

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PAHs in Soil Our Reference: Your Reference Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85131-27 R35 0.9-1.0 Soil 1/02/2011	SE85131-29 R35 2.9-3.0 Soil 1/02/2011	SE85131-31 R9 0.2-0.3 Soil 1/02/2011	SE85131-35 R9 2.9-3.0 Soil 1/02/2011	SE85131-37 R8 0.4-0.5 Soil 2/02/2011
Date Extracted		8/02/2011	8/02/2011	8/02/2011	8/02/2011	8/02/2011
Date Analysed		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Naphthalene	mg/kg	<0.10	<0.10	0.11	<0.10	<0.10
Acenaphthylene	mg/kg	<0.10	<0.10	0.35	<0.10	<0.10
Acenaphthene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Fluorene	mg/kg	<0.10	<0.10	0.20	<0.10	<0.10
Phenanthrene	mg/kg	0.10	<0.10	1.7	0.14	0.26
Anthracene	mg/kg	<0.10	<0.10	0.58	<0.10	0.10
Fluoranthene	mg/kg	0.13	<0.10	2.5	0.39	0.71
Pyrene	mg/kg	0.12	<0.10	2.2	0.38	0.71
Benzo[*a*]anthracene	mg/kg	<0.10	<0.10	1.3	0.25	0.44
Chrysene	mg/kg	<0.10	<0.10	0.84	0.21	0.34
Benzo[*b*]fluoranthene	mg/kg	<0.1	<0.1	1.3	0.3	0.5
Benzo[*k*]fluoranthene	mg/kg	<0.10	<0.10	0.48	0.15	0.21
Benzo[*a*]pyrene	mg/kg	<0.10	<0.10	1.0	0.24	0.43
Indeno[*123-cd*]pyrene	mg/kg	<0.10	<0.10	0.54	0.18	0.27
Dibenzo[*ah*]anthracene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Benzo[*ghi*]perylene	mg/kg	<0.10	<0.10	0.47	0.17	0.25
Total PAHs (sum)	mg/kg	<1.65	<2	<13.76	<3.02	<4.72
Nitrobenzene-d5	%	111	117	114	113	106
2-Fluorobiphenyl	%	100	105	109	98	93
p -Terphenyl-*d14*	%	94	97	120	95	90

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PAHs in Soil Our Reference: Your Reference Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85131-39 R8 1.9-2.0 Soil 2/02/2011	SE85131-43 R15 0.4-0.5 Soil 2/02/2011	SE85131-45 R15 1.9-2.0 Soil 2/02/2011	SE85131-48 R17 0.2-0.3 Soil 2/02/2011	SE85131-52 R17 2.9-3.0 Soil 2/02/2011
Date Extracted		8/02/2011	8/02/2011	8/02/2011	8/02/2011	8/02/2011
Date Analysed		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Naphthalene	mg/kg	<0.10	0.11	<0.10	<0.10	<0.10
Acenaphthylene	mg/kg	<0.10	0.38	<0.10	<0.10	<0.10
Acenaphthene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Fluorene	mg/kg	<0.10	0.13	<0.10	<0.10	<0.10
Phenanthrene	mg/kg	0.10	2.3	0.40	0.13	0.26
Anthracene	mg/kg	<0.10	0.62	<0.10	<0.10	<0.10
Fluoranthene	mg/kg	0.63	4.1	0.39	0.38	0.92
Pyrene	mg/kg	0.72	3.8	0.35	0.37	0.93
Benzo[*a*]anthracene	mg/kg	0.63	2.2	0.20	0.23	0.55
Chrysene	mg/kg	0.48	1.5	0.18	0.19	0.46
Benzo[*b*]fluoranthene	mg/kg	1	2.6	0.3	0.3	0.7
Benzo[*k*]fluoranthene	mg/kg	0.33	0.84	0.13	0.15	0.27
Benzo[*a*]pyrene	mg/kg	0.79	1.9	0.20	0.24	0.56
Indeno[*123-cd*]pyrene	mg/kg	0.55	1.3	0.16	0.16	0.37
Dibenzo[*ah*]anthracene	mg/kg	<0.10	0.24	<0.10	<0.10	<0.10
Benzo[*ghi*]perylene	mg/kg	0.58	1.2	0.14	0.16	0.35
Total PAHs (sum)	mg/kg	<6.37	<23.46	<3.04	<2.88	<5.93
Nitrobenzene-d5	%	104	107	111	110	106
2-Fluorobiphenyl	%	97	103	103	99	98
p -Terphenyl-*d14*	%	97	97	86	95	94

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PAHs in Soil Our Reference: Your Reference Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85131-56 R37 0.9-1.0 Soil 2/02/2011	SE85131-58 R37 2.9-3.0 Soil 2/02/2011	SE85131-62 R36 0.9-1.0 Soil 2/02/2011	SE85131-64 R36 2.9-3.0 Soil 2/02/2011	SE85131-67 R43 0.4-0.5 Soil 2/02/2011
Date Extracted		8/02/2011	8/02/2011	8/02/2011	8/02/2011	8/02/2011
Date Analysed		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Naphthalene	mg/kg	<0.10	<0.10	<0.10	<0.10	2.8
Acenaphthylene	mg/kg	<0.10	<0.10	<0.10	<0.10	7.4
Acenaphthene	mg/kg	<0.10	<0.10	<0.10	<0.10	1.7
Fluorene	mg/kg	<0.10	<0.10	<0.10	<0.10	5.0
Phenanthrene	mg/kg	0.26	0.34	0.58	0.11	60
Anthracene	mg/kg	<0.10	0.13	0.16	<0.10	12
Fluoranthene	mg/kg	0.43	1.1	1.6	0.22	74
Pyrene	mg/kg	0.41	1.3	0.60	0.23	70
Benzo[*a*]anthracene	mg/kg	0.24	0.61	1.2	0.17	35
Chrysene	mg/kg	0.21	0.49	0.88	0.17	26
Benzo[*b*]fluoranthene	mg/kg	0.3	0.6	1.6	0.2	37
Benzo[*k*]fluoranthene	mg/kg	0.13	0.26	0.51	0.10	11
Benzo[*a*]pyrene	mg/kg	0.24	0.58	1.2	0.16	29
Indeno[*123-cd*]pyrene	mg/kg	0.16	0.37	0.84	0.11	15
Dibenzo[*ah*]anthracene	mg/kg	<0.10	<0.10	0.14	<0.10	2.6
Benzo[*ghi*]perylene	mg/kg	0.16	0.38	0.78	0.10	13
Total PAHs (sum)	mg/kg	<3.14	<6.69	<10.51	<2.16	400
Nitrobenzene-d5	%	104	90	97	84	72
2-Fluorobiphenyl	%	101	91	93	90	92
p -Terphenyl-*d14*	%	89	95	93	93	102

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PAHs in Soil Our Reference: Your Reference Depth Sample Matrix Date Sampled	UNITS --- ---	SE85131-69 R43 1.9-2.0 Soil 2/02/2011	SE85131-74 R17 0.9-1.0 Soil 2/02/2011	SE85131-76 R17 2.9-3.0 Soil 2/02/2011	SE85131-78 QC5 - Soil 1/02/2011	SE85131-80 QC7 - Soil 1/02/2011
Date Extracted		8/02/2011	8/02/2011	8/02/2011	8/02/2011	8/02/2011
Date Analysed		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Naphthalene	mg/kg	<0.10	<0.10	0.38	<0.10	0.60
Acenaphthylene	mg/kg	0.10	0.10	0.52	<0.10	0.82
Acenaphthene	mg/kg	<0.10	<0.10	0.48	<0.10	0.21
Fluorene	mg/kg	<0.10	<0.10	0.69	<0.10	0.56
Phenanthrene	mg/kg	0.80	0.96	5.7	<0.10	5.2
Anthracene	mg/kg	0.27	0.28	1.6	<0.10	1.6
Fluoranthene	mg/kg	1.2	1.3	8.4	0.15	10
Pyrene	mg/kg	1.1	1.2	8.5	0.19	9.7
Benzo[*a*]anthracene	mg/kg	0.64	0.66	4.3	<0.10	5.8
Chrysene	mg/kg	0.43	0.49	3.6	0.12	3.7
Benzo[*b*]fluoranthene	mg/kg	0.7	0.7	5.2	0.1	5.7
Benzo[*k*]fluoranthene	mg/kg	0.26	0.26	1.3	<0.10	1.7
Benzo[*a*]pyrene	mg/kg	0.54	0.58	4.2	<0.10	4.5
Indeno[*123-cd*]pyrene	mg/kg	0.36	0.37	2.7	<0.10	2.4
Dibenzo[*ah*]anthracene	mg/kg	<0.10	<0.10	0.46	<0.10	0.41
Benzo[*ghi*]perylene	mg/kg	0.35	0.36	2.7	<0.10	2.1
Total PAHs (sum)	mg/kg	<7.14	<7.63	51	<1.76	55
Nitrobenzene-d5	%	89	88	118	112	119
2-Fluorobiphenyl	%	87	89	110	99	109
p -Terphenyl-*d14*	%	98	88	99	96	104

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PAHs in Soil Our Reference: Your Reference Depth Sample Matrix Date Sampled	UNITS --- ---	SE85131-83 QC10 - Soil 2/02/2011	SE85131-84 QC11 - Soil 2/02/2011	SE85131-89 BHP7 1.0-1.1 Soil 2/02/2011	SE85131-90 BHP7 2.0-2.1 Soil 2/02/2011	SE85131-91 BHP7 7.0-7.1 Soil 2/02/2011
Date Extracted		8/02/2011	8/02/2011	8/02/2011	8/02/2011	8/02/2011
Date Analysed		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Naphthalene	mg/kg	0.17	<0.10	<0.10	<0.10	0.66
Acenaphthylene	mg/kg	0.36	<0.10	<0.10	<0.10	3.5
Acenaphthene	mg/kg	<0.10	<0.10	<0.10	<0.10	0.71
Fluorene	mg/kg	0.17	<0.10	<0.10	<0.10	4.1
Phenanthrene	mg/kg	1.7	0.44	0.41	<0.10	19
Anthracene	mg/kg	0.37	0.19	0.38	<0.10	4.4
Fluoranthene	mg/kg	3.3	1.2	0.38	<0.10	19
Pyrene	mg/kg	3.0	1.1	0.32	<0.10	17
Benzo[*a*]anthracene	mg/kg	1.7	0.66	0.20	<0.10	9.2
Chrysene	mg/kg	1.6	0.46	0.19	<0.10	5.8
Benzo[*b*]fluoranthene	mg/kg	2.8	0.6	0.3	<0.1	8.4
Benzo[*k*]fluoranthene	mg/kg	0.78	0.27	0.10	<0.10	2.6
Benzo[*a*]pyrene	mg/kg	1.5	0.57	0.17	<0.10	6.8
Indeno[*123-cd*]pyrene	mg/kg	1.1	0.30	0.11	<0.10	3.5
Dibenzo[*ah*]anthracene	mg/kg	0.19	<0.10	<0.10	<0.10	0.66
Benzo[*ghi*]perylene	mg/kg	0.87	0.26	0.10	<0.10	3.1
Total PAHs (sum)	mg/kg	<19.68	<6.64	<3.13	<2	110
Nitrobenzene-d5	%	120	112	117	120	117
2-Fluorobiphenyl	%	108	100	108	106	110
p -Terphenyl-*d14*	%	93	94	97	90	99

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PAHs in Soil Our Reference: Your Reference Depth Sample Matrix Date Sampled	UNITS --- ---	SE85131-93 BHP6A 0.5-0.6 Soil 2/02/2011	SE85131-95 BHP6A 2.0-2.1 Soil 2/02/2011	SE85131-102 BHP3 5.5-5.6 Soil 1/02/2011	SE85131-107 BHP3 2.0-2.1 Soil 1/02/2011	SE85131-109 BHP2 0.5-0.6 Soil 1/02/2011
Date Extracted		8/02/2011	8/02/2011	8/02/2011	8/02/2011	8/02/2011
Date Analysed		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Naphthalene	mg/kg	<0.10	<0.10	0.46	<0.10	<0.10
Acenaphthylene	mg/kg	0.24	<0.10	0.38	0.22	0.26
Acenaphthene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Fluorene	mg/kg	<0.10	<0.10	0.29	<0.10	<0.10
Phenanthrene	mg/kg	1.2	0.46	2.4	1.3	0.73
Anthracene	mg/kg	0.35	<0.10	0.45	0.37	0.30
Fluoranthene	mg/kg	2.2	0.55	2.0	2.9	2.1
Pyrene	mg/kg	2.2	0.51	1.9	3.0	2.1
Benzo[*a*]anthracene	mg/kg	1.2	0.29	0.88	1.6	1.3
Chrysene	mg/kg	0.91	0.22	0.68	1.4	1.0
Benzo[*b*]fluoranthene	mg/kg	1.4	0.3	0.8	2.0	1.6
Benzo[*k*]fluoranthene	mg/kg	0.44	0.11	0.30	0.67	0.45
Benzo[*a*]pyrene	mg/kg	1.1	0.23	0.67	1.6	1.2
Indeno[*123-cd*]pyrene	mg/kg	0.59	0.12	0.34	0.90	0.66
Dibenzo[*ah*]anthracene	mg/kg	0.10	<0.10	<0.10	0.15	<0.10
Benzo[*ghi*]perylene	mg/kg	0.53	0.11	0.30	0.83	0.59
Total PAHs (sum)	mg/kg	<12.70	<3.48	<12.15	<17.28	<12.75
Nitrobenzene-d5	%	114	113	113	119	110
2-Fluorobiphenyl	%	105	103	104	106	103
p -Terphenyl-*d14*	%	98	95	93	100	99

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PAHs in Soil Our Reference: Your Reference Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85131-116 BHP3 0.5-0.6 Soil 1/02/2011	SE85131-121 DUP3 - Soil 1/02/2011	SE85131-124 BH2 2.0-2.1 Soil 1/02/2011	SE85131-125 DUP5 - Soil 2/02/2011
Date Extracted		8/02/2011	8/02/2011	8/02/2011	8/02/2011
Date Analysed		9/02/2011	9/02/2011	9/02/2011	9/02/2011
Naphthalene	mg/kg	0.14	<0.10	<0.10	0.12
Acenaphthylene	mg/kg	0.84	0.11	<0.10	0.11
Acenaphthene	mg/kg	<0.10	<0.10	<0.10	<0.10
Fluorene	mg/kg	0.48	<0.10	<0.10	<0.10
Phenanthrene	mg/kg	5.2	0.66	0.52	0.77
Anthracene	mg/kg	1.2	0.22	0.13	0.21
Fluoranthene	mg/kg	5.5	1.8	0.51	1.0
Pyrene	mg/kg	5.2	1.9	0.47	0.96
Benzo[*a*]anthracene	mg/kg	2.5	1.1	0.20	0.52
Chrysene	mg/kg	1.9	0.87	0.18	0.41
Benzo[*b*]fluoranthene	mg/kg	2.5	1.3	0.2	0.5
Benzo[*k*]fluoranthene	mg/kg	0.76	0.44	<0.10	0.23
Benzo[*a*]pyrene	mg/kg	2.0	1.1	0.15	0.43
Indeno[*123-cd*]pyrene	mg/kg	0.96	0.61	<0.10	0.24
Dibenzo[*ah*]anthracene	mg/kg	0.16	<0.10	<0.10	<0.10
Benzo[*ghi*]perylene	mg/kg	0.85	0.55	<0.10	0.22
Total PAHs (sum)	mg/kg	<30.24	<11.11	<3.14	<6.08
Nitrobenzene-d5	%	104	115	108	109
2-Fluorobiphenyl	%	101	104	98	101
p -Terphenyl-*d14*	%	92	99	90	94

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Metals in Soil by ICP-OES Our Reference:	UNITS	SE85131-1	SE85131-2	SE85131-4	SE85131-8	SE85131-10
Your Reference	----------	R11	R11	R11	R12	R12
Depth	----------	0.2-03	0.4-0.5	1.9-2.0	0.4-0.5	1.9-2.0
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Date Sampled		1/02/2011	1/02/2011	1/02/2011	1/02/2011	1/02/2011
Date Extracted (Metals)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Date Analysed (Metals)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Arsenic	mg/kg	3	7	<3	7	5
Cadmium	mg/kg	0.3	0.4	<0.3	0.93	<0.3
Chromium	mg/kg	9.7	8.7	4.0	9.4	7.4
Copper	mg/kg	210	82	2.7	110	19
Lead	mg/kg	13	190	3	1,200	16
Nickel	mg/kg	14	7.7	3.1	9.7	2.7
Zinc	mg/kg	61	190	14	6,200	42

Metals in Soil by ICP-OES Our Reference:	UNITS	SE85131-15	SE85131-16	SE85131-21	SE85131-22	SE85131-24
Your Reference	----------	R14	R14	R10	R10	R10
Depth	----------	0.9-1.0	1.9-2.0	0.9-1.0	1.9-2.0	3.9-4.0
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Date Sampled		1/02/2011	1/02/2011	1/02/2011	1/02/2011	1/02/2011
Date Extracted (Metals)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Date Analysed (Metals)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Arsenic	mg/kg	6	4	7	4	4
Cadmium	mg/kg	0.4	<0.3	0.4	<0.3	<0.3
Chromium	mg/kg	7.1	4.1	9.2	4.7	6.5
Copper	mg/kg	430	30	92	21	26
Lead	mg/kg	97	28	150	39	11
Nickel	mg/kg	7.7	4.6	11	2.8	2.3
Zinc	mg/kg	150	160	140	52	85

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Metals in Soil by ICP-OES Our Reference: Your Reference Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85131-27 R35 0.9-1.0 Soil 1/02/2011	SE85131-29 R35 2.9-3.0 Soil 1/02/2011	SE85131-31 R9 0.2-0.3 Soil 1/02/2011	SE85131-35 R9 2.9-3.0 Soil 1/02/2011	SE85131-37 R8 0.4-0.5 Soil 2/02/2011
Date Extracted (Metals)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Date Analysed (Metals)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Arsenic	mg/kg	4	16	7	9	6
Cadmium	mg/kg	0.4	1.2	0.4	0.4	0.7
Chromium	mg/kg	13	70	12	16	11
Copper	mg/kg	49	160	220	14	36
Lead	mg/kg	47	1,600	270	520	70
Nickel	mg/kg	11	57	15	3.1	7.7
Zinc	mg/kg	96	410	260	110	66

Metals in Soil by ICP-OES Our Reference: Your Reference Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85131-39 R8 1.9-2.0 Soil 2/02/2011	SE85131-43 R15 0.4-0.5 Soil 2/02/2011	SE85131-45 R15 1.9-2.0 Soil 2/02/2011	SE85131-48 R17 0.2-0.3 Soil 2/02/2011	SE85131-52 R17 2.9-3.0 Soil 2/02/2011
Date Extracted (Metals)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Date Analysed (Metals)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Arsenic	mg/kg	6	7	5	<3	<3
Cadmium	mg/kg	<0.3	0.5	0.4	<0.3	<0.3
Chromium	mg/kg	3.0	9.1	12	3.2	5.5
Copper	mg/kg	36	100	11	27	25
Lead	mg/kg	20	98	24	120	560
Nickel	mg/kg	4.4	8.1	1.7	2.6	6.2
Zinc	mg/kg	29	240	36	200	110

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Metals in Soil by ICP-OES Our Reference: Your Reference Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85131-56 R37 0.9-1.0 Soil 2/02/2011	SE85131-58 R37 2.9-3.0 Soil 2/02/2011	SE85131-62 R36 0.9-1.0 Soil 2/02/2011	SE85131-64 R36 2.9-3.0 Soil 2/02/2011	SE85131-67 R43 0.4-0.5 Soil 2/02/2011
Date Extracted (Metals)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Date Analysed (Metals)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Arsenic	mg/kg	6	4	5	10	5
Cadmium	mg/kg	0.4	<0.3	<0.3	<0.3	0.4
Chromium	mg/kg	13	6.5	9.8	4.9	9.2
Copper	mg/kg	50	8.4	32	30	140
Lead	mg/kg	50	38	29	17	280
Nickel	mg/kg	17	1.4	10	4.3	7.0
Zinc	mg/kg	210	19	110	94	130

Metals in Soil by ICP-OES Our Reference: Your Reference Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85131-69 R43 1.9-2.0 Soil 2/02/2011	SE85131-74 R17 0.9-1.0 Soil 2/02/2011	SE85131-76 R17 2.9-3.0 Soil 2/02/2011	SE85131-78 QC5 - Soil 1/02/2011	SE85131-80 QC7 - Soil 1/02/2011
Date Extracted (Metals)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Date Analysed (Metals)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Arsenic	mg/kg	5	5	22	<3	8
Cadmium	mg/kg	<0.3	1.1	13	<0.3	0.3
Chromium	mg/kg	8.6	8.3	57	4.4	9.1
Copper	mg/kg	8.1	200	1,700	200	63
Lead	mg/kg	15	100	1,300	13	140
Nickel	mg/kg	8.0	14	90	8.3	8.0
Zinc	mg/kg	44	140	7,200	57	140

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Metals in Soil by ICP-OES Our Reference: Your Reference Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85131-83 QC10 - Soil 2/02/2011	SE85131-84 QC11 - Soil 2/02/2011	SE85131-89 BHP7 1.0-1.1 Soil 2/02/2011	SE85131-90 BHP7 2.0-2.1 Soil 2/02/2011	SE85131-91 BHP7 7.0-7.1 Soil 2/02/2011
Date Extracted (Metals)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Date Analysed (Metals)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Arsenic	mg/kg	<3	6	6	<3	<3
Cadmium	mg/kg	<0.3	0.5	0.4	<0.3	<0.3
Chromium	mg/kg	11	17	9.9	5.5	6.7
Copper	mg/kg	12	54	38	19	24
Lead	mg/kg	26	330	55	16	130
Nickel	mg/kg	1.8	18	11	8.2	5.5
Zinc	mg/kg	36	120	160	57	97

Metals in Soil by ICP-OES Our Reference: Your Reference Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85131-93 BHP6A 0.5-0.6 Soil 2/02/2011	SE85131-95 BHP6A 2.0-2.1 Soil 2/02/2011	SE85131-102 BHP3 5.5-5.6 Soil 1/02/2011	SE85131-107 BHP3 2.0-2.1 Soil 1/02/2011	SE85131-109 BHP2 0.5-0.6 Soil 1/02/2011
Date Extracted (Metals)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Date Analysed (Metals)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Arsenic	mg/kg	11	12	3	25	3
Cadmium	mg/kg	0.4	<0.3	<0.3	<0.3	0.9
Chromium	mg/kg	10	5.5	3.5	11	4.5
Copper	mg/kg	90	44	15	55	58
Lead	mg/kg	420	39	50	200	220
Nickel	mg/kg	8.0	3.2	1.9	3.9	3.8
Zinc	mg/kg	170	88	25	120	320

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Metals in Soil by ICP-OES Our Reference: Your Reference Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85131-116 BHP3 0.5-0.6 Soil 1/02/2011	SE85131-121 DUP3 - Soil 1/02/2011	SE85131-124 BH2 2.0-2.1 Soil 1/02/2011	SE85131-125 DUP5 - Soil 2/02/2011
Date Extracted (Metals)		9/02/2011	9/02/2011	9/02/2011	9/02/2011
Date Analysed (Metals)		9/02/2011	9/02/2011	9/02/2011	9/02/2011
Arsenic	mg/kg	5	29	<3	7
Cadmium	mg/kg	0.5	<0.3	<0.3	0.5
Chromium	mg/kg	8.2	9.7	1.1	9.4
Copper	mg/kg	90	32	4.4	97
Lead	mg/kg	130	120	25	110
Nickel	mg/kg	7.2	2.9	0.8	6.3
Zinc	mg/kg	160	74	17	170

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Mercury Cold Vapor/Hg Analyser Our Reference:	UNITS	SE85131-1	SE85131-2	SE85131-4	SE85131-8	SE85131-10
Your Reference	----------	R11	R11	R11	R12	R12
Depth	----------	0.2-03	0.4-0.5	1.9-2.0	0.4-0.5	1.9-2.0
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Date Sampled		1/02/2011	1/02/2011	1/02/2011	1/02/2011	1/02/2011
Date Extracted (Mercury)		15/02/2011	15/02/2011	15/02/2011	15/02/2011	15/02/2011
Date Analysed (Mercury)		15/02/2011	15/02/2011	15/02/2011	15/02/2011	15/02/2011
Mercury	mg/kg	<0.05	0.30	<0.05	0.14	<0.05

Mercury Cold Vapor/Hg Analyser Our Reference:	UNITS	SE85131-15	SE85131-16	SE85131-21	SE85131-22	SE85131-24
Your Reference	----------	R14	R14	R10	R10	R10
Depth	----------	0.9-1.0	1.9-2.0	0.9-1.0	1.9-2.0	3.9-4.0
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Date Sampled		1/02/2011	1/02/2011	1/02/2011	1/02/2011	1/02/2011
Date Extracted (Mercury)		15/02/2011	15/02/2011	15/02/2011	15/02/2011	15/02/2011
Date Analysed (Mercury)		15/02/2011	15/02/2011	15/02/2011	15/02/2011	15/02/2011
Mercury	mg/kg	0.21	0.07	0.30	0.08	0.06

Mercury Cold Vapor/Hg Analyser Our Reference:	UNITS	SE85131-27	SE85131-29	SE85131-31	SE85131-35	SE85131-37
Your Reference	----------	R35	R35	R9	R9	R8
Depth	----------	0.9-1.0	2.9-3.0	0.2-0.3	2.9-3.0	0.4-0.5
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Date Sampled		1/02/2011	1/02/2011	1/02/2011	1/02/2011	2/02/2011
Date Extracted (Mercury)		15/02/2011	15/02/2011	15/02/2011	15/02/2011	15/02/2011
Date Analysed (Mercury)		15/02/2011	15/02/2011	15/02/2011	15/02/2011	15/02/2011
Mercury	mg/kg	<0.05	0.10	0.37	0.10	0.14

Mercury Cold Vapor/Hg Analyser Our Reference:	UNITS	SE85131-39	SE85131-43	SE85131-45	SE85131-48	SE85131-52
Your Reference	----------	R8	R15	R15	R17	R17
Depth	----------	1.9-2.0	0.4-0.5	1.9-2.0	0.2-0.3	2.9-3.0
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Date Sampled		2/02/2011	2/02/2011	2/02/2011	2/02/2011	2/02/2011
Date Extracted (Mercury)		15/02/2011	15/02/2011	15/02/2011	15/02/2011	15/02/2011
Date Analysed (Mercury)		15/02/2011	15/02/2011	15/02/2011	15/02/2011	15/02/2011
Mercury	mg/kg	0.11	0.16	<0.05	0.14	0.12

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Mercury Cold Vapor/Hg Analyser Our Reference: Your Reference Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85131-56 R37 0.9-1.0 Soil 2/02/2011	SE85131-58 R37 2.9-3.0 Soil 2/02/2011	SE85131-62 R36 0.9-1.0 Soil 2/02/2011	SE85131-64 R36 2.9-3.0 Soil 2/02/2011	SE85131-67 R43 0.4-0.5 Soil 2/02/2011
Date Extracted (Mercury)		15/02/2011	15/02/2011	15/02/2011	15/02/2011	15/02/2011
Date Analysed (Mercury)		15/02/2011	15/02/2011	15/02/2011	15/02/2011	15/02/2011
Mercury	mg/kg	0.09	0.10	<0.05	<0.05	0.09

Mercury Cold Vapor/Hg Analyser Our Reference: Your Reference Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85131-69 R43 1.9-2.0 Soil 2/02/2011	SE85131-74 R17 0.9-1.0 Soil 2/02/2011	SE85131-76 R17 2.9-3.0 Soil 2/02/2011	SE85131-78 QC5 - Soil 1/02/2011	SE85131-80 QC7 - Soil 1/02/2011
Date Extracted (Mercury)		15/02/2011	15/02/2011	15/02/2011	15/02/2011	15/02/2011
Date Analysed (Mercury)		15/02/2011	15/02/2011	15/02/2011	15/02/2011	15/02/2011
Mercury	mg/kg	0.16	0.10	0.07	<0.05	0.24

Mercury Cold Vapor/Hg Analyser Our Reference: Your Reference Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85131-83 QC10 - Soil 2/02/2011	SE85131-84 QC11 - Soil 2/02/2011	SE85131-89 BHP7 1.0-1.1 Soil 2/02/2011	SE85131-90 BHP7 2.0-2.1 Soil 2/02/2011	SE85131-91 BHP7 7.0-7.1 Soil 2/02/2011
Date Extracted (Mercury)		15/02/2011	15/02/2011	15/02/2011	15/02/2011	15/02/2011
Date Analysed (Mercury)		15/02/2011	15/02/2011	15/02/2011	15/02/2011	15/02/2011
Mercury	mg/kg	<0.05	0.08	0.05	<0.05	0.12

Mercury Cold Vapor/Hg Analyser Our Reference: Your Reference Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85131-93 BHP6A 0.5-0.6 Soil 2/02/2011	SE85131-95 BHP6A 2.0-2.1 Soil 2/02/2011	SE85131-102 BHP3 5.5-5.6 Soil 1/02/2011	SE85131-107 BHP3 2.0-2.1 Soil 1/02/2011	SE85131-109 BHP2 0.5-0.6 Soil 1/02/2011
Date Extracted (Mercury)		15/02/2011	15/02/2011	15/02/2011	15/02/2011	15/02/2011
Date Analysed (Mercury)		15/02/2011	15/02/2011	15/02/2011	15/02/2011	15/02/2011
Mercury	mg/kg	0.22	0.06	0.20	0.70	0.17

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Mercury Cold Vapor/Hg Analyser Our Reference: Your Reference Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85131-116 BHP3 0.5-0.6 Soil 1/02/2011	SE85131-121 DUP3 - Soil 1/02/2011	SE85131-124 BH2 2.0-2.1 Soil 1/02/2011	SE85131-125 DUP5 - Soil 2/02/2011
Date Extracted (Mercury)		15/02/2011	15/02/2011	15/02/2011	15/02/2011
Date Analysed (Mercury)		15/02/2011	15/02/2011	15/02/2011	15/02/2011
Mercury	mg/kg	0.19	0.79	0.07	0.16

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Asbestos ID in soil Our Reference:	UNITS	SE85131-2	SE85131-4	SE85131-8	SE85131-10	SE85131-15
Your Reference	----------	R11	R11	R12	R12	R14
Depth	----------	0.4-0.5	1.9-2.0	0.4-0.5	1.9-2.0	0.9-1.0
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Date Sampled		1/02/2011	1/02/2011	1/02/2011	1/02/2011	1/02/2011
Date Analysed		10/02/2011	10/02/2011	10/02/2011	10/02/2011	10/02/2011
Sample Description		79g Soil,Rocks	78g Soil	85g Soil,roccs	84g Soil,Rocks	78g Soil,Rocks
Asbestos ID in soil	-	Chrysotile asbestos detected Organic fibres detected	No asbestos detected	Chrysotile asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected

Asbestos ID in soil Our Reference:	UNITS	SE85131-16	SE85131-21	SE85131-22	SE85131-27	SE85131-29
Your Reference	----------	R14	R10	R10	R35	R35
Depth	----------	1.9-2.0	0.9-1.0	1.9-2.0	0.9-1.0	2.9-3.0
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Date Sampled		1/02/2011	1/02/2011	1/02/2011	1/02/2011	1/02/2011
Date Analysed		10/02/2011	10/02/2011	10/02/2011	10/02/2011	10/02/2011
Sample Description		105g Soil,Rocks, Clay	78g Soil,Rocks, Clay	95g Soil,Rocks, Clay	67g Soil,Rocks	112g Soil,Rocks
Asbestos ID in soil	-	No asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected	Chrysotile asbestos detected Organic fibres detected Synthetic Mineral Fibres detected	No asbestos detected Organic fibres detected	Chrysotile asbestos detected Organic fibres detected

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Asbestos ID in soil Our Reference: Your Reference Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85131-31 R9 0.2-0.3 Soil 1/02/2011	SE85131-35 R9 2.9-3.0 Soil 1/02/2011	SE85131-37 R8 0.4-0.5 Soil 2/02/2011	SE85131-39 R8 1.9-2.0 Soil 2/02/2011	SE85131-43 R15 0.4-0.5 Soil 2/02/2011
Date Analysed		10/02/2011	10/02/2011	10/02/2011	10/02/2011	10/02/2011
Sample Description		93g Soil,Rocks, Clay	87g Soil,Rocks, Clay	66g Soil,Rocks, Clay	65g Soil,Rocks, Clay	87g Soil,Rocks
Asbestos ID in soil	-	No asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected	Chrysotile asbestos detected Organic fibres detected

Asbestos ID in soil Our Reference: Your Reference Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85131-45 R15 1.9-2.0 Soil 2/02/2011	SE85131-48 R17 0.2-0.3 Soil 2/02/2011	SE85131-52 R17 2.9-3.0 Soil 2/02/2011	SE85131-56 R37 0.9-1.0 Soil 2/02/2011	SE85131-58 R37 2.9-3.0 Soil 2/02/2011
Date Analysed		10/02/2011	10/02/2011	10/02/2011	10/02/2011	10/02/2011
Sample Description		50g Soil,Clay	105g Soil	86g Soil,Rocks	54g Soil,Rocks	104g Soil,Rocks
Asbestos ID in soil	-	No asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected	Chrysotile asbestos detected Organic fibres detected

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Asbestos ID in soil Our Reference:	UNITS	SE85131-62	SE85131-64	SE85131-67	SE85131-69	SE85131-74
Your Reference	----------	R36	R36	R43	R43	R17
Depth	----------	0.9-1.0	2.9-3.0	0.4-0.5	1.9-2.0	0.9-1.0
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Date Sampled		2/02/2011	2/02/2011	2/02/2011	2/02/2011	2/02/2011
Date Analysed		10/02/2011	10/02/2011	10/02/2011	10/02/2011	10/02/2011
Sample Description		77g Soil,Rocks	100g Soil,Rocks	86g Soil,Rocks	74g Soil,Rocks	95g Soil,Rocks
Asbestos ID in soil	-	No asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected	No asbestos detected	No asbestos detected	Chrysotile asbestos detected Organic fibres detected

Asbestos ID in soil Our Reference:	UNITS	SE85131-76	SE85131-89	SE85131-90	SE85131-91	SE85131-93
Your Reference	----------	R17	BHP7	BHP7	BHP7	BHP6A
Depth	----------	2.9-3.0	1.0-1.1	2.0-2.1	7.0-7.1	0.5-0.6
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Date Sampled		2/02/2011	2/02/2011	2/02/2011	2/02/2011	2/02/2011
Date Analysed		10/02/2011	10/02/2011	10/02/2011	10/02/2011	10/02/2011
Sample Description		74g Soil,Rocks	80g Soil,Rocks	32g Soil,Rocks	21g Soil,Rocks	76g Soil,Rocks
Asbestos ID in soil	-	No asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected	Chrysotile asbestos detected Organic fibres detected	No asbestos detected

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Asbestos ID in soil Our Reference: Your Reference Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85131-95 BHP6A 2.0-2.1 Soil 2/02/2011	SE85131-102 BHP3 5.5-5.6 Soil 1/02/2011	SE85131-107 BHP3 2.0-2.1 Soil 1/02/2011	SE85131-109 BHP2 0.5-0.6 Soil 1/02/2011	SE85131-116 BHP3 0.5-0.6 Soil 1/02/2011
Date Analysed		10/02/2011	10/02/2011	10/02/2011	10/02/2011	10/02/2011
Sample Description		36g Soil,Rocks	46g Soil,Clay	65g Soil,Rocks	62g Soil,Rocks	53g Soil,Rocks
Asbestos ID in soil	-	No asbestos detected Organic fibres detected	No asbestos detected Synthetic Mineral Fibres detected	No asbestos detected Organic fibres detected	No asbestos detected	Chrysotile asbestos detected Organic fibres detected

Asbestos ID in soil Our Reference: Your Reference Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85131-124 BH2 2.0-2.1 Soil 1/02/2011
Date Analysed		10/02/2011
Sample Description		54g Soil,Rocks
Asbestos ID in soil	-	No asbestos detected Organic fibres detected

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BTEX in Water (µg/L) Our Reference: Your Reference Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85131-126 Trip Spike 3 - Water 31/01/2011	SE85131-127 Trip Blank 4 - Water 31/01/2011	SE85131-128 Trip Spike 2 - Water 31/01/2011	SE85131-129 Trip Blank 2 - Water 31/01/2011
Date Extracted (BTEX)		7/02/2011	7/02/2011	7/02/2011	7/02/2011
Date Analysed (BTEX)		7/02/2011	7/02/2011	7/02/2011	7/02/2011
Benzene	µg/L	97%	<0.5	99%	<0.5
Toluene	µg/L	97%	<0.5	98%	<0.5
Ethylbenzene	µg/L	95%	<0.5	96%	<0.5
Total Xylenes	µg/L	93%	<1.5	88%	<1.5
Surrogate	%	82	95	81	104

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TRH C6-C9 by P/T ONLY-in water Our Reference: Your Reference Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85131-127 Trip Blank 4 - Water 31/01/2011	SE85131-129 Trip Blank 2 - Water 31/01/2011
Date Extracted (TRH C6-C9 PT)		7/02/2011	7/02/2011
Date Analysed (TRH C6-C9 PT)		7/02/2011	7/02/2011
TRH C_6 - C_9 P&T in µg/L	µg/L	<40	<40

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Moisture Our Reference:	UNITS	SE85131-1	SE85131-2	SE85131-4	SE85131-8	SE85131-10
Your Reference	----------	R11	R11	R11	R12	R12
Depth	----------	0.2-03	0.4-0.5	1.9-2.0	0.4-0.5	1.9-2.0
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Date Sampled		1/02/2011	1/02/2011	1/02/2011	1/02/2011	1/02/2011
Date Analysed (moisture)		8/02/2011	8/02/2011	8/02/2011	8/02/2011	8/02/2011
Moisture	%	9	12	13	15	14

Moisture Our Reference:	UNITS	SE85131-15	SE85131-16	SE85131-21	SE85131-22	SE85131-24
Your Reference	----------	R14	R14	R10	R10	R10
Depth	----------	0.9-1.0	1.9-2.0	0.9-1.0	1.9-2.0	3.9-4.0
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Date Sampled		1/02/2011	1/02/2011	1/02/2011	1/02/2011	1/02/2011
Date Analysed (moisture)		8/02/2011	8/02/2011	8/02/2011	8/02/2011	8/02/2011
Moisture	%	9	19	17	15	21

Moisture Our Reference:	UNITS	SE85131-27	SE85131-29	SE85131-31	SE85131-35	SE85131-37
Your Reference	----------	R35	R35	R9	R9	R8
Depth	----------	0.9-1.0	2.9-3.0	0.2-0.3	2.9-3.0	0.4-0.5
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Date Sampled		1/02/2011	1/02/2011	1/02/2011	1/02/2011	2/02/2011
Date Analysed (moisture)		8/02/2011	8/02/2011	8/02/2011	8/02/2011	8/02/2011
Moisture	%	18	19	18	17	21

Moisture Our Reference:	UNITS	SE85131-39	SE85131-43	SE85131-45	SE85131-48	SE85131-52
Your Reference	----------	R8	R15	R15	R17	R17
Depth	----------	1.9-2.0	0.4-0.5	1.9-2.0	0.2-0.3	2.9-3.0
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Date Sampled		2/02/2011	2/02/2011	2/02/2011	2/02/2011	2/02/2011
Date Analysed (moisture)		8/02/2011	8/02/2011	8/02/2011	8/02/2011	8/02/2011
Moisture	%	20	4	19	19	18

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Moisture Our Reference:	UNITS	SE85131-56	SE85131-58	SE85131-62	SE85131-64	SE85131-67
Your Reference	----------	R37	R37	R36	R36	R43
Depth	----------	0.9-1.0	2.9-3.0	0.9-1.0	2.9-3.0	0.4-0.5
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Date Sampled		2/02/2011	2/02/2011	2/02/2011	2/02/2011	2/02/2011
Date Analysed (moisture)		8/02/2011	8/02/2011	8/02/2011	8/02/2011	8/02/2011
Moisture	%	16	20	16	20	9

Moisture Our Reference:	UNITS	SE85131-69	SE85131-74	SE85131-76	SE85131-78	SE85131-80
Your Reference	----------	R43	R17	R17	QC5	QC7
Depth	----------	1.9-2.0	0.9-1.0	2.9-3.0	-	-
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Date Sampled		2/02/2011	2/02/2011	2/02/2011	1/02/2011	1/02/2011
Date Analysed (moisture)		8/02/2011	8/02/2011	8/02/2011	8/02/2011	8/02/2011
Moisture	%	9	11	15	9	20

Moisture Our Reference:	UNITS	SE85131-83	SE85131-84	SE85131-89	SE85131-90	SE85131-91
Your Reference	----------	QC10	QC11	BHP7	BHP7	BHP7
Depth	----------	-	-	1.0-1.1	2.0-2.1	7.0-7.1
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Date Sampled		2/02/2011	2/02/2011	2/02/2011	2/02/2011	2/02/2011
Date Analysed (moisture)		8/02/2011	8/02/2011	8/02/2011	8/02/2011	8/02/2011
Moisture	%	19	15	13	21	12

Moisture Our Reference:	UNITS	SE85131-93	SE85131-95	SE85131-102	SE85131-107	SE85131-109
Your Reference	----------	BHP6A	BHP6A	BHP3	BHP3	BHP2
Depth	----------	0.5-0.6	2.0-2.1	5.5-5.6	2.0-2.1	0.5-0.6
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Date Sampled		2/02/2011	2/02/2011	1/02/2011	1/02/2011	1/02/2011
Date Analysed (moisture)		8/02/2011	8/02/2011	8/02/2011	8/02/2011	8/02/2011
Moisture	%	12	19	21	14	19

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Moisture Our Reference:	UNITS	SE85131-116	SE85131-121	SE85131-124	SE85131-125
Your Reference	----------	BHP3	DUP3	BH2	DUP5
Depth	----------	0.5-0.6	-	2.0-2.1	-
Sample Matrix		Soil	Soil	Soil	Soil
Date Sampled		1/02/2011	1/02/2011	1/02/2011	2/02/2011
Date Analysed (moisture)		8/02/2011	8/02/2011	8/02/2011	8/02/2011
Moisture	%	15	17	19	20

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Method ID	Methodology Summary
SEO-018	BTEX / C6-C9 Hydrocarbons - Soil samples are extracted with methanol, purged and concentrated by a purge and trap apparatus, and then analysed using GC/MS technique. Water samples undergo the same analysis without the extraction step. Based on USEPA 5030B and 8260B.
SEO-020	Total Recoverable Hydrocarbons - determined by solvent extraction with dichloromethane / acetone for soils and dichloromethane for waters, followed by instrumentation analysis using GC/FID. Where applicable Solid Phase Extraction Manifold technique is used for aliphatic / aromatic fractionation.
SEO-030	Polynuclear Aromatic Hydrocarbons - determined by solvent extraction with dichloromethane / acetone for soils and dichloromethane for waters, followed by instrumentation analysis using GC/MS SIM mode.
SEM-010	Determination of elements by ICP-OES following appropriate sample preparation / digestion process. Based on USEPA 6010C / APHA 21st Edition, 3120B.
SEM-005	Mercury - determined by Cold-Vapour AAS following appropriate sample preparation or digestion process. Based on APHA 21st Edition, 3112B.
AN602	Analysed using in house method AN602 - Qualitative identification of Asbestos Fibres, Synthetic Mineral Fibres and Organic Fibres in bulk samples (including building materials and soils) using Polarised Light Microscopy and Dispersion Staining Techniques. Our NATA Accreditation does not currently cover the identification of Synthetic Mineral Fibres and Organic Fibres, however, according to new NATA requirements, the reporting of these fibres is compulsory if detected.
AN002	Preparation of soils, sediments and sludges undergo analysis by either air drying, compositing, subsampling and 1:5 soil water extraction where required. Moisture content is determined by drying the sample at 105 ± 5°C.

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QUALITY CONTROL BTEX in Soil	UNITS	LOR	METHOD	Blank
Date Extracted (BTEX)				08/02/2011
Date Analysed (BTEX)				11/02/2011
Benzene	mg/kg	0.1	SEO-018	<0.1
Toluene	mg/kg	0.1	SEO-018	<0.1
Ethylbenzene	mg/kg	0.1	SEO-018	<0.1
Total Xylenes	mg/kg	0.3	SEO-018	<0.3
BTEX Surrogate (%)	%	0	SEO-018	91

QUALITY CONTROL TRH in soil with C6-C9 by P/T	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (TRH C6-C9 PT)				08/02/2011	SE85131-2	8/02/2011 || 8/02/2011	[NR]	[NR]
Date Analysed (TRH C6-C9 PT)				11/02/2011	SE85131-2	11/02/2011 || 11/02/2011	[NR]	[NR]
TRH C_6 - C_9 P&T	mg/kg	20	SEO-018	<20	SE85131-2	<20 || [N/T]	[NR]	[NR]
Date Extracted (TRH C10-C36)				9/02/2011	SE85131-2	9/02/2011 || 9/02/2011	SE85131-4	9/02/2011
Date Analysed (TRH C10-C36)				9/02/2011	SE85131-2	9/02/2011 || 9/02/2011	SE85131-4	9/02/2011
TRH C_{10} - C_{14}	mg/kg	20	SEO-020	<20	SE85131-2	<20 || <20	SE85131-4	124%
TRH C_{15} - C_{28}	mg/kg	50	SEO-020	<50	SE85131-2	53 || 63 || RPD: 17	SE85131-4	123%
TRH C_{29} - C_{36}	mg/kg	50	SEO-020	<50	SE85131-2	<50 || <50	SE85131-4	89%

QUALITY CONTROL PAHs in Soil	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted				08/02/11	SE85131-31	8/02/2011 || 8/02/2011	SE85131-8	08/02/11
Date Analysed				09/02/11	SE85131-31	9/02/2011 || 9/02/2011	SE85131-8	09/02/11
Naphthalene	mg/kg	0.1	SEO-030	<0.10	SE85131-31	0.11 || 0.11 || RPD: 0	SE85131-8	116%
Acenaphthylene	mg/kg	0.1	SEO-030	<0.10	SE85131-31	0.35 || 0.31 || RPD: 12	SE85131-8	106%
Acenaphthene	mg/kg	0.1	SEO-030	<0.10	SE85131-31	<0.10 || <0.10	SE85131-8	112%
Fluorene	mg/kg	0.1	SEO-030	<0.10	SE85131-31	0.20 || 0.19 || RPD: 5	[NR]	[NR]
Phenanthrene	mg/kg	0.1	SEO-030	<0.10	SE85131-31	1.7 || 1.5 || RPD: 12	SE85131-8	102%

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QUALITY CONTROL PAHs in Soil	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Anthracene	mg/kg	0.1	SEO-030	<0.10	SE85131-31	0.58 || 0.34 || RPD: 52	SE85131-8	117%
Fluoranthene	mg/kg	0.1	SEO-030	<0.10	SE85131-31	2.5 || 2.2 || RPD: 13	SE85131-8	101%
Pyrene	mg/kg	0.1	SEO-030	<0.10	SE85131-31	2.2 || 1.9 || RPD: 15	SE85131-8	102%
Benzo[*a*]anthracene	mg/kg	0.1	SEO-030	<0.10	SE85131-31	1.3 || 1.1 || RPD: 17	[NR]	[NR]
Chrysene	mg/kg	0.1	SEO-030	<0.10	SE85131-31	0.84 || 0.74 || RPD: 13	[NR]	[NR]
Benzo[*b*]fluoranthene	mg/kg	0.1	SEO-030	<0.1	SE85131-31	1.3 || 1.1 || RPD: 17	[NR]	[NR]
Benzo[*k*]fluoranthene	mg/kg	0.1	SEO-030	<0.10	SE85131-31	0.48 || 0.41 || RPD: 16	[NR]	[NR]
Benzo[*a*]pyrene	mg/kg	0.1	SEO-030	<0.10	SE85131-31	1.0 || 0.90 || RPD: 11	SE85131-8	105%
Indeno[*123-cd*]pyrene	mg/kg	0.1	SEO-030	<0.10	SE85131-31	0.54 || 0.48 || RPD: 12	[NR]	[NR]
Dibenzo[*ah*]anthracene	mg/kg	0.1	SEO-030	<0.10	SE85131-31	<0.10 || <0.10	[NR]	[NR]
Benzo[*ghi*]perylene	mg/kg	0.1	SEO-030	<0.10	SE85131-31	0.47 || 0.42 || RPD: 11	[NR]	[NR]
Total PAHs (sum)	mg/kg	1.6	SEO-030	<2	SE85131-31	<13.76 || <11.95	[NR]	[NR]
Nitrobenzene-d5	%	0	SEO-030	110	SE85131-31	114 || 110 || RPD: 4	SE85131-8	122%
2-Fluorobiphenyl	%	0	SEO-030	99	SE85131-31	109 || 120 || RPD: 10	SE85131-8	107%
p -Terphenyl-*d*14	%	0	SEO-030	93	SE85131-31	120 || 111 || RPD: 8	SE85131-8	96%

QUALITY CONTROL Metals in Soil by ICP-OES	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (Metals)				9/02/2011	SE85131-1	9/02/2011 || 9/02/2011	SE85131-2	9/02/2011
Date Analysed (Metals)				9/02/2011	SE85131-1	9/02/2011 || 9/02/2011	SE85131-2	9/02/2011
Arsenic	mg/kg	3	SEM-010	<3	SE85131-1	3 || <3	SE85131-2	79%
Cadmium	mg/kg	0.3	SEM-010	<0.3	SE85131-1	0.3 || 0.3 || RPD: 0	SE85131-2	77%
Chromium	mg/kg	0.3	SEM-010	<0.3	SE85131-1	9.7 || 13 || RPD: 29	SE85131-2	83%
Copper	mg/kg	0.5	SEM-010	<0.5	SE85131-1	210 || 190 || RPD: 10	SE85131-2	92%
Lead	mg/kg	1	SEM-010	<1	SE85131-1	13 || 11 || RPD: 17	SE85131-2	91%
Nickel	mg/kg	0.5	SEM-010	<0.5	SE85131-1	14 || 16 || RPD: 13	SE85131-2	84%

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QUALITY CONTROL Metals in Soil by ICP-OES	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Zinc	mg/kg	0.5	SEM-010	<0.5	SE85131-1	61 || 56 || RPD: 9	SE85131-2	100%

QUALITY CONTROL Mercury Cold Vapor/Hg Analyser	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (Mercury)				15/02/2011	SE85131-1	15/02/2011 || 15/02/2011	SE85131-2	15/02/2011
Date Analysed (Mercury)				15/02/2011	SE85131-1	15/02/2011 || 15/02/2011	SE85131-2	15/02/2011
Mercury	mg/kg	0.05	SEM-005	<0.05	SE85131-1	<0.05 || <0.05	SE85131-2	106%

QUALITY CONTROL Asbestos ID in soil	UNITS	LOR	METHOD	Blank
Date Analysed				[NT]

QUALITY CONTROL BTEX in Water (µg/L)	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (BTEX)				07/02/11	[NT]	[NT]	LCS	07/02/11
Date Analysed (BTEX)				07/02/11	[NT]	[NT]	LCS	07/02/11
Benzene	µg/L	0.5	SEO-018	<0.5	[NT]	[NT]	LCS	102%
Toluene	µg/L	0.5	SEO-018	<0.5	[NT]	[NT]	LCS	101%
Ethylbenzene	µg/L	0.5	SEO-018	<0.5	[NT]	[NT]	LCS	101%
Total Xylenes	µg/L	1.5	SEO-018	<1.5	[NT]	[NT]	LCS	102%
Surrogate	%	0	SEO-018	101	[NT]	[NT]	LCS	74%

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QUALITY CONTROL TRH C6-C9 by P/T ONLY-in water	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (TRH C6-C9 PT)				07/02/11	[NT]	[NT]	LCS	07/02/11
Date Analysed (TRH C6-C9 PT)				07/02/11	[NT]	[NT]	LCS	07/02/11
TRH C_6 - C_9 P&T in µg/L	µg/L	40	SEO-018	<40	[NT]	[NT]	LCS	129%

QUALITY CONTROL Hold sample-**NO test** required	UNITS	LOR	METHOD	Blank
Sample on HOLD		[NT]		[NT]

QUALITY CONTROL Moisture	UNITS	LOR	METHOD	Blank
Date Analysed (moisture)				[NT]
Moisture	%	1	AN002	<1

QUALITY CONTROL TRH in soil with C6-C9 by P/T	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (TRH C6-C9 PT)		SE85131-31	8/02/2011 || 8/02/2011	[NR]	[NR]
Date Analysed (TRH C6-C9 PT)		SE85131-31	11/02/2011 || 11/02/2011	[NR]	[NR]
Date Extracted (TRH C10-C36)		SE85131-31	9/02/2011 || 9/02/2011	SE85131-58	9/02/2011
Date Analysed (TRH C10-C36)		SE85131-31	9/02/2011 || 9/02/2011	SE85131-58	9/02/2011
TRH C_{10} - C_{14}	mg/kg	SE85131-31	<20 || <20	SE85131-58	105%
TRH C_{15} - C_{28}	mg/kg	SE85131-31	<50 || <50	SE85131-58	123%
TRH C_{29} - C_{36}	mg/kg	SE85131-31	<50 || <50	SE85131-58	74%

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QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted		SE85131-67	8/02/2011 || 8/02/2011	SE85131-80	08/02/11
Date Analysed		SE85131-67	9/02/2011 || 9/02/2011	SE85131-80	09/02/11
Naphthalene	mg/kg	SE85131-67	2.8 || 1.7 || RPD: 49	SE85131-80	117%
Acenaphthylene	mg/kg	SE85131-67	7.4 || 4.8 || RPD: 43	SE85131-80	101%
Acenaphthene	mg/kg	SE85131-67	1.7 || 1.3 || RPD: 27	SE85131-80	123%
Fluorene	mg/kg	SE85131-67	5.0 || 3.3 || RPD: 41	[NR]	[NR]
Phenanthrene	mg/kg	SE85131-67	60 || 45 || RPD: 29	SE85131-80	#
Anthracene	mg/kg	SE85131-67	12 || 7.9 || RPD: 41	SE85131-80	94%
Fluoranthene	mg/kg	SE85131-67	74 || 54 || RPD: 31	SE85131-80	#
Pyrene	mg/kg	SE85131-67	70 || 50 || RPD: 33	SE85131-80	#
Benzo[*a*]anthracene	mg/kg	SE85131-67	35 || 26 || RPD: 30	[NR]	[NR]
Chrysene	mg/kg	SE85131-67	26 || 19 || RPD: 31	[NR]	[NR]
Benzo[*b*]fluoranthene	mg/kg	SE85131-67	37 || 24 || RPD: 43	[NR]	[NR]
Benzo[*k*]fluoranthene	mg/kg	SE85131-67	11 || 9.1 || RPD: 19	[NR]	[NR]
Benzo[*a*]pyrene	mg/kg	SE85131-67	29 || 20 || RPD: 37	SE85131-80	#
Indeno[*123-cd*]pyrene	mg/kg	SE85131-67	15 || 10 || RPD: 40	[NR]	[NR]
Dibenzo[*ah*]anthracene	mg/kg	SE85131-67	2.6 || 1.6 || RPD: 48	[NR]	[NR]
Benzo[*ghi*]perylene	mg/kg	SE85131-67	13 || 9.3 || RPD: 33	[NR]	[NR]
Total PAHs (sum)	mg/kg	SE85131-67	400 || 290 || RPD: 32	[NR]	[NR]
Nitrobenzene-d5	%	SE85131-67	72 || 86 || RPD: 18	SE85131-80	106%
2-Fluorobiphenyl	%	SE85131-67	92 || 94 || RPD: 2	SE85131-80	96%
p -Terphenyl-*d14*	%	SE85131-67	102 || 106 || RPD: 4	SE85131-80	90%

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QUALITY CONTROL Metals in Soil by ICP-OES	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (Metals)		SE85131-27	9/02/2011 || 9/02/2011	SE85131-58	9/02/2011
Date Analysed (Metals)		SE85131-27	9/02/2011 || 9/02/2011	SE85131-58	9/02/2011
Arsenic	mg/kg	SE85131-27	4 || 3 || RPD: 29	SE85131-58	88%
Cadmium	mg/kg	SE85131-27	0.4 || <0.3	SE85131-58	91%
Chromium	mg/kg	SE85131-27	13 || 12 || RPD: 8	SE85131-58	96%
Copper	mg/kg	SE85131-27	49 || 51 || RPD: 4	SE85131-58	99%
Lead	mg/kg	SE85131-27	47 || 36 || RPD: 27	SE85131-58	96%
Nickel	mg/kg	SE85131-27	11 || 13 || RPD: 17	SE85131-58	97%
Zinc	mg/kg	SE85131-27	96 || 80 || RPD: 18	SE85131-58	103%

QUALITY CONTROL Mercury Cold Vapor/Hg Analyser	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (Mercury)		SE85131-27	15/02/2011 || 15/02/2011	SE85131-58	15/02/2011
Date Analysed (Mercury)		SE85131-27	15/02/2011 || 15/02/2011	SE85131-58	15/02/2011
Mercury	mg/kg	SE85131-27	<0.05 || <0.05	SE85131-58	111%

QUALITY CONTROL BTEX in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (BTEX)		[NT]	[NT]	SE85131-43	08/02/11
Date Analysed (BTEX)		[NT]	[NT]	SE85131-43	11/02/11
Benzene	mg/kg	[NT]	[NT]	SE85131-43	70%
Toluene	mg/kg	[NT]	[NT]	SE85131-43	70%

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QUALITY CONTROL BTEX in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Ethylbenzene	mg/kg	[NT]	[NT]	SE85131-43	70%
Total Xylenes	mg/kg	[NT]	[NT]	SE85131-43	76%
BTEX Surrogate (%)	%	[NT]	[NT]	SE85131-43	78%

QUALITY CONTROL TRH in soil with C6-C9 by P/T	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (TRH C6-C9 PT)		SE85131-67	8/02/2011 || 8/02/2011	SE85131-43	08/02/11
Date Analysed (TRH C6-C9 PT)		SE85131-67	11/02/2011 || 11/02/2011	SE85131-43	11/02/11
TRH C_6 - C_9 P&T	mg/kg	SE85131-67	<20 || [N/T]	SE85131-43	80%
Date Extracted (TRH C10-C36)		SE85131-67	9/02/2011 || 9/02/2011	[NR]	[NR]
Date Analysed (TRH C10-C36)		SE85131-67	9/02/2011 || 9/02/2011	[NR]	[NR]
TRH C_{10} - C_{14}	mg/kg	SE85131-67	30 || <20	[NR]	[NR]
TRH C_{15} - C_{28}	mg/kg	SE85131-67	1600 || 1100 || RPD: 37	[NR]	[NR]
TRH C_{29} - C_{36}	mg/kg	SE85131-67	910 || 820 || RPD: 10	[NR]	[NR]

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QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted		SE85131-2	8/02/2011 || 8/02/2011	LCS	08/02/11
Date Analysed		SE85131-2	9/02/2011 || 9/02/2011	LCS	09/02/11
Naphthalene	mg/kg	SE85131-2	0.12 || 0.13 || RPD: 8	LCS	99%
Acenaphthylene	mg/kg	SE85131-2	0.30 || 0.42 || RPD: 33	LCS	91%
Acenaphthene	mg/kg	SE85131-2	<0.10 || <0.10	LCS	97%
Fluorene	mg/kg	SE85131-2	<0.10 || 0.13	[NR]	[NR]
Phenanthrene	mg/kg	SE85131-2	1.2 || 1.7 || RPD: 34	LCS	88%
Anthracene	mg/kg	SE85131-2	0.39 || 0.55 || RPD: 34	LCS	102%
Fluoranthene	mg/kg	SE85131-2	2.6 || 3.6 || RPD: 32	LCS	91%
Pyrene	mg/kg	SE85131-2	2.6 || 3.6 || RPD: 32	LCS	93%
Benzo[*a*]anthracene	mg/kg	SE85131-2	1.4 || 2.4 || RPD: 53	[NR]	[NR]
Chrysene	mg/kg	SE85131-2	1.1 || 1.5 || RPD: 31	[NR]	[NR]
Benzo[*b*]fluoranthene	mg/kg	SE85131-2	1.8 || 2.5 || RPD: 33	[NR]	[NR]
Benzo[*k*]fluoranthene	mg/kg	SE85131-2	0.49 || 0.76 || RPD: 43	[NR]	[NR]
Benzo[*a*]pyrene	mg/kg	SE85131-2	1.4 || 1.9 || RPD: 30	LCS	99%
Indeno[*123-cd*]pyrene	mg/kg	SE85131-2	0.72 || 0.96 || RPD: 29	[NR]	[NR]
Dibenzo[*ah*]anthracene	mg/kg	SE85131-2	0.11 || 0.17 || RPD: 43	[NR]	[NR]
Benzo[*ghi*]perylene	mg/kg	SE85131-2	0.65 || 0.86 || RPD: 28	[NR]	[NR]
Total PAHs (sum)	mg/kg	SE85131-2	<15.08 || <21.28	[NR]	[NR]
Nitrobenzene-d5	%	SE85131-2	112 || 109 || RPD: 3	LCS	114%
2-Fluorobiphenyl	%	SE85131-2	103 || 98 || RPD: 5	LCS	101%
p -Terphenyl-*d14*	%	SE85131-2	99 || 92 || RPD: 7	LCS	89%

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QUALITY CONTROL Metals in Soil by ICP-OES	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (Metals)		SE85131-56	9/02/2011 || 9/02/2011	SE85131-121	9/02/2011
Date Analysed (Metals)		SE85131-56	9/02/2011 || 9/02/2011	SE85131-121	9/02/2011
Arsenic	mg/kg	SE85131-56	6 || 5 || RPD: 18	SE85131-121	91%
Cadmium	mg/kg	SE85131-56	0.4 || 0.4 || RPD: 0	SE85131-121	87%
Chromium	mg/kg	SE85131-56	13 || 16 || RPD: 21	SE85131-121	84%
Copper	mg/kg	SE85131-56	50 || 50 || RPD: 0	SE85131-121	115%
Lead	mg/kg	SE85131-56	50 || 68 || RPD: 31	SE85131-121	105%
Nickel	mg/kg	SE85131-56	17 || 19 || RPD: 11	SE85131-121	93%
Zinc	mg/kg	SE85131-56	210 || 210 || RPD: 0	SE85131-121	106%

QUALITY CONTROL Mercury Cold Vapor/Hg Analyser	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (Mercury)		SE85131-56	15/02/2011 || 15/02/2011	SE85131-124	15/02/2011
Date Analysed (Mercury)		SE85131-56	15/02/2011 || 15/02/2011	SE85131-124	15/02/2011
Mercury	mg/kg	SE85131-56	0.09 || 0.08 || RPD: 12	SE85131-124	101%

QUALITY CONTROL BTEX in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (BTEX)		[NT]	[NT]	SE85131-107	08/02/11
Date Analysed (BTEX)		[NT]	[NT]	SE85131-107	13/02/11
Benzene	mg/kg	[NT]	[NT]	SE85131-107	84%
Toluene	mg/kg	[NT]	[NT]	SE85131-107	89%

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QUALITY CONTROL BTEX in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Ethylbenzene	mg/kg	[NT]	[NT]	SE85131-107	93%
Total Xylenes	mg/kg	[NT]	[NT]	SE85131-107	100%
BTEX Surrogate (%)	%	[NT]	[NT]	SE85131-107	79%

QUALITY CONTROL TRH in soil with C6-C9 by P/T	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (TRH C6-C9 PT)		SE85131-107	8/02/2011 || 8/02/2011	SE85131-107	08/02/11
Date Analysed (TRH C6-C9 PT)		SE85131-107	11/02/2011 || 11/02/2011	SE85131-107	13/02/11
TRH C_6 - C_9 P&T	mg/kg	SE85131-107	<20 || [N/T]	SE85131-107	105%
Date Extracted (TRH C10-C36)		SE85131-107	9/02/2011 || 9/02/2011	[NR]	[NR]
Date Analysed (TRH C10-C36)		SE85131-107	9/02/2011 || 9/02/2011	[NR]	[NR]
TRH C_{10} - C_{14}	mg/kg	SE85131-107	<20 || <20	[NR]	[NR]
TRH C_{15} - C_{28}	mg/kg	SE85131-107	<50 || 83	[NR]	[NR]
TRH C_{29} - C_{36}	mg/kg	SE85131-107	<50 || <50	[NR]	[NR]

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QUALITY CONTROL Metals in Soil by ICP-OES	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date Extracted (Metals)		SE85131-83	9/02/2011 || 9/02/2011
Date Analysed (Metals)		SE85131-83	9/02/2011 || 9/02/2011
Arsenic	mg/kg	SE85131-83	<3 || <3
Cadmium	mg/kg	SE85131-83	<0.3 || <0.3
Chromium	mg/kg	SE85131-83	11 || 8.9 || RPD: 21
Copper	mg/kg	SE85131-83	12 || 9.4 || RPD: 24
Lead	mg/kg	SE85131-83	26 || 19 || RPD: 31
Nickel	mg/kg	SE85131-83	1.8 || 1.3 || RPD: 32
Zinc	mg/kg	SE85131-83	36 || 30 || RPD: 18

QUALITY CONTROL Mercury Cold Vapor/Hg Analyser	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date Extracted (Mercury)		SE85131-84	15/02/2011 || 15/02/2011
Date Analysed (Mercury)		SE85131-84	15/02/2011 || 15/02/2011
Mercury	mg/kg	SE85131-84	0.08 || 0.08 || RPD: 0

QUALITY CONTROL BTEX in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date Extracted (BTEX)		SE85131-10	8/02/2011 || 8/02/2011
Date Analysed (BTEX)		SE85131-10	11/02/2011 || 11/02/2011
Benzene	mg/kg	SE85131-10	<0.1 || <0.1
Toluene	mg/kg	SE85131-10	<0.1 || <0.1
Ethylbenzene	mg/kg	SE85131-10	<0.1 || <0.1

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QUALITY CONTROL BTEX in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Total Xylenes	mg/kg	SE85131-10	<0.3 || <0.3
BTEX Surrogate (%)	%	SE85131-10	85 || 68 || RPD: 22

QUALITY CONTROL TRH in soil with C6-C9 by P/T	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date Extracted (TRH C6-C9 PT)		SE85131-10	8/02/2011 || 8/02/2011
Date Analysed (TRH C6-C9 PT)		SE85131-10	11/02/2011 || 11/02/2011
TRH C_6 - C_9 P&T	mg/kg	SE85131-10	<20 || <20
Date Extracted (TRH C10-C36)		SE85131-10	9/02/2011 || 9/02/2011
Date Analysed (TRH C10-C36)		SE85131-10	9/02/2011 || 9/02/2011
TRH C_{10} - C_{14}	mg/kg	SE85131-10	<20 || [N/T]
TRH C_{15} - C_{28}	mg/kg	SE85131-10	<50 || [N/T]
TRH C_{29} - C_{36}	mg/kg	SE85131-10	<50 || [N/T]

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QUALITY CONTROL Metals in Soil by ICP-OES	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date Extracted (Metals)		SE85131-1 16	9/02/2011 || 9/02/2011
Date Analysed (Metals)		SE85131-1 16	9/02/2011 || 9/02/2011
Arsenic	mg/kg	SE85131-1 16	5 || 6 || RPD: 18
Cadmium	mg/kg	SE85131-1 16	0.5 || 0.4 || RPD: 22
Chromium	mg/kg	SE85131-1 16	8.2 || 8.1 || RPD: 1
Copper	mg/kg	SE85131-1 16	90 || 73 || RPD: 21
Lead	mg/kg	SE85131-1 16	130 || 110 || RPD: 17
Nickel	mg/kg	SE85131-1 16	7.2 || 8.4 || RPD: 15
Zinc	mg/kg	SE85131-1 16	160 || 150 || RPD: 6

QUALITY CONTROL Mercury Cold Vapor/Hg Analyser	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date Extracted (Mercury)		SE85131-1 21	15/02/2011 || 15/02/2011
Date Analysed (Mercury)		SE85131-1 21	15/02/2011 || 15/02/2011
Mercury	mg/kg	SE85131-1 21	0.79 || 0.63 || RPD: 23

QUALITY CONTROL BTEX in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date Extracted (BTEX)		SE85131-3 9	8/02/2011 || 8/02/2011
Date Analysed (BTEX)		SE85131-3 9	11/02/2011 || 11/02/2011
Benzene	mg/kg	SE85131-3 9	<0.1 || <0.1
Toluene	mg/kg	SE85131-3 9	<0.1 || <0.1
Ethylbenzene	mg/kg	SE85131-3 9	<0.1 || <0.1

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QUALITY CONTROL BTEX in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Total Xylenes	mg/kg	SE85131-39	<0.3 || <0.3
BTEX Surrogate (%)	%	SE85131-39	63 || 70 || RPD: 11

QUALITY CONTROL TRH in soil with C6-C9 by P/T	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date Extracted (TRH C6-C9 PT)		SE85131-39	8/02/2011 || 8/02/2011
Date Analysed (TRH C6-C9 PT)		SE85131-39	11/02/2011 || 11/02/2011
TRH C_6 - C_9 P&T	mg/kg	SE85131-39	<20 || <20
Date Extracted (TRH C10-C36)		SE85131-39	9/02/2011 || 9/02/2011
Date Analysed (TRH C10-C36)		SE85131-39	9/02/2011 || 9/02/2011
TRH C_{10} - C_{14}	mg/kg	SE85131-39	<20 || [N/T]
TRH C_{15} - C_{28}	mg/kg	SE85131-39	<50 || [N/T]
TRH C_{29} - C_{36}	mg/kg	SE85131-39	<50 || [N/T]

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QUALITY CONTROL BTEX in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date Extracted (BTEX)		SE85131-69	8/02/2011 || 8/02/2011
Date Analysed (BTEX)		SE85131-69	11/02/2011 || 11/02/2011
Benzene	mg/kg	SE85131-69	<0.1 || <0.1
Toluene	mg/kg	SE85131-69	<0.1 || <0.1
Ethylbenzene	mg/kg	SE85131-69	<0.1 || <0.1
Total Xylenes	mg/kg	SE85131-69	<0.3 || <0.3
BTEX Surrogate (%)	%	SE85131-69	83 || 88 || RPD: 6

QUALITY CONTROL TRH in soil with C6-C9 by P/T	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date Extracted (TRH C6-C9 PT)		SE85131-69	8/02/2011 || 8/02/2011
Date Analysed (TRH C6-C9 PT)		SE85131-69	11/02/2011 || 11/02/2011
TRH C_6 - C_9 P&T	mg/kg	SE85131-69	<20 || <20
Date Extracted (TRH C10-C36)		SE85131-69	9/02/2011 || 9/02/2011
Date Analysed (TRH C10-C36)		SE85131-69	9/02/2011 || 9/02/2011
TRH C_{10} - C_{14}	mg/kg	SE85131-69	<20 || [N/T]
TRH C_{15} - C_{28}	mg/kg	SE85131-69	<50 || [N/T]
TRH C_{29} - C_{36}	mg/kg	SE85131-69	<50 || [N/T]

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QUALITY CONTROL BTEX in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date Extracted (BTEX)		SE85131-102	8/02/2011 || 8/02/2011
Date Analysed (BTEX)		SE85131-102	11/02/2011 || 11/02/2011
Benzene	mg/kg	SE85131-102	<0.1 || <0.1
Toluene	mg/kg	SE85131-102	<0.1 || <0.1
Ethylbenzene	mg/kg	SE85131-102	<0.1 || <0.1
Total Xylenes	mg/kg	SE85131-102	<0.3 || <0.3
BTEX Surrogate (%)	%	SE85131-102	77 || 85 || RPD: 10

QUALITY CONTROL TRH in soil with C6-C9 by P/T	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date Extracted (TRH C6-C9 PT)		SE85131-102	8/02/2011 || 8/02/2011
Date Analysed (TRH C6-C9 PT)		SE85131-102	11/02/2011 || 11/02/2011
TRH C_6 - C_9 P&T	mg/kg	SE85131-102	<20 || <20
Date Extracted (TRH C10-C36)		SE85131-102	9/02/2011 || 9/02/2011
Date Analysed (TRH C10-C36)		SE85131-102	9/02/2011 || 9/02/2011
TRH C_{10} - C_{14}	mg/kg	SE85131-102	<20 || [N/T]
TRH C_{15} - C_{28}	mg/kg	SE85131-102	<50 || [N/T]
TRH C_{29} - C_{36}	mg/kg	SE85131-102	<50 || [N/T]

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Result Codes

[INS] : Insufficient Sample for this test
[NR] : Not Requested
[NT] : Not tested
[LOR] : Limit of reporting
[RPD] : Relative Percentage Difference
* : Not part of NATA Accreditation
[N/A] : Not Applicable

Report Comments

PAH- Spike not reported due to sample matrix interference, LCS reported.
TRH/PAH - Duplicate not recovered within acceptance criteria due to inhomogeneous sample.

Sampled by the client

Even after disintegration it can be very difficult, or impossible, to detect the presence of asbestos in some asbestos-containing bulk materials using polarised light microscopy.
This is due to the low grade or small length or diameter of asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials.

No respirable fibres detected using trace analysis technique.

Sample # 74,91,116 : 2mm length fibre bundle hand picked and found loose in sample
Sample # 2,8 : 1-3mm length fibre bundle hand picked and found loose in sample
Sample # 22: 1-3mm length fibre bundlesx2 found loose in sample.
Sample # 43: 1-3mm length fibre bundlesx3 found loose in sample.
Sample # 58: 1-3mm length fibre bundlesx4 found loose in sample.
Sample # 29 : 1-3mm length fibre bundles found in 3x2x2mm Cement sheet fragment.
Sample # 2,8,74,91,116 : <0.1g/kg
Sample # 22,29 ,43,58 : >0.1g/kg

Asbestos analysed by Approved Identifier Yusuf Kuthpudin.

PAH-Spikes not reported due to sample matrix interference.
Samples analysed as received. Solid samples expressed on a dry weight basis.
Date Organics extraction commenced:
NATA Corporate Accreditation No. 2562, Site No 4354
Note: Test results are not corrected for recovery (excluding Air-toxics and Dioxins/Furans*)
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Quality Control Protocol

Method Blank: An analyte free matrix to which all reagents are added in the same volume or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. A method blank is prepared every 20 samples.
Duplicate: A separate portion of a sample being analysed that is treated the same as the other samples in the batch. One duplicate is processed at least every 10 samples.
Surrogate Spike: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are added to samples before extraction to monitor extraction efficiency and percent recovery in each sample.
Internal Standard: Added to all samples requiring analysis for organics (where relevant) or metals by ICP after the extraction/digestion process; the compounds/elements serve to give a standard of retention time and/or response, which is invariant from run-to-run with the instruments.
Laboratory Control Sample: A known matrix spiked with compound(s) representative of the target analytes. It is used to document laboratory performance. When the results of the matrix spike analysis indicates a potential problem due to the sample matrix itself, the LCS results are used to verify that the laboratory can perform the analysis in a clean matrix.
Matrix Spike: An aliquot of sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

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Quality Acceptance Criteria

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: http://www.au.sgs.com/sgs-mp-au-env-qu-022-qa-qc-plan-en-09.pdf

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ANALYTICAL REPORT

21 February 2011

Coffey Environments Pty Ltd
Level 1, 3 Rider Boulevard
RHODES
NSW 2138

Attention: **Nalin De Silva**

Your Reference: ENAURHOD04108AA - Additional Analysis

Our Reference: SE85131C Samples: 3 Soils
Received: 2/2/11

Preliminary Report Sent: Not Issued

These samples were analysed in accordance with your written instructions.

For and on Behalf of:
SGS ENVIRONMENTAL SERVICES

Sample Receipt:	Angela Mamalicos	AU.SampleReceipt.Sydney@sgs.com
Production Manager:	Huong Crawford	Huong.Crawford@sgs.com

Results Approved and/or Authorised by:

Ly Kim Ha
Organics Signatory

Huong Crawford
Metals Signatory

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PAHs in TCLP (USEPA 1311) Our Reference: Your Reference Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85131C-67 R43 0.4-0.5 Soil 2/02/2011	SE85131C-91 BHP7 7.0-7.1 Soil 2/02/2011
Date Extracted (TCLP Preparation)		18/02/2011	18/02/2011
pH of soil for fluid# determ.	pH units	7.65	8.89
Extraction fluid used	-	1	1
pH of soil for fluid # determ. (acid)	pH units	1.77	1.74
pH of final Leachate	pH units	5.52	5.22
Date Extracted		18/02/2011	18/02/2011
Date Analysed		18/02/2011	18/02/2011
Benzo[a]pyrene	µg/L	<0.50	<0.50
Nitrobenzene-d5	%	124	72
2-Fluorobiphenyl	%	129	64
p -Terphenyl-*d14*	%	130	86

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Metals in TCLP Our Reference: Your Reference Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85131C-8 R12 0.4-0.5 Soil 1/02/2011
Date Extracted (TCLP Preparation)		18/02/2011
pH of soil for fluid# determ.	pH units	8.08
pH of soil for fluid # determ. (acid)	pH units	1.61
Extraction fluid used	-	1
pH of final Leachate	pH units	5.28
Date Extracted (Metals)		21/02/2011
Date Analysed (Metals)		21/02/2011
Lead	mg/L	0.12

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Method ID	Methodology Summary
AN006	Toxicity Characteristic Leaching Procedure (TCLP) - Preparation of leachates for assessing the mobility of both organic and inorganic contaminants present in liquid, solid, and multiphase wastes. Based on USEPA 1311. For volatile analytes, Zero-Headspace Extraction Vessel (ZHE) is used. This method also meets the requirements of Australian Standard Leaching Procedure (ASLP) AS 4439.3-1997 Part 3.
AN101	pH - Measured using pH meter and electrode based on APHA 21st Edition, 4500-H+. For water analyses the results reported are indicative only as the sample holding time requirement specified in APHA was not met (APHA requires that the pH of the samples are to be measured within 15 minutes after sampling).
SEO-030	Polynuclear Aromatic Hydrocarbons - determined by solvent extraction with dichloromethane / acetone for soils and dichloromethane for waters, followed by instrumentation analysis using GC/MS SIM mode. Total PAH is the sum of all positive PAH(s) assuming non-quantifiable PAH(s) (<LOR) do not contribute to the total. LOR for Total PAH is based on 50% of the sum of 16 PAH LORs.
SEM-010	Determination of elements by ICP-OES following appropriate sample preparation / digestion process. Based on USEPA 6010C / APHA 21st Edition, 3120B.

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QUALITY CONTROL PAHs in TCLP (USEPA 1311)	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
pH of soil for fluid# determ.	pH units	0	AN101	[NT]	[NT]	[NT]	[NR]	[NR]
Extraction fluid used	-		AN006	1	[NT]	[NT]	[NR]	[NR]
pH of soil for fluid # determ. (acid)	pH units	0	AN101	[NT]	[NT]	[NT]	[NR]	[NR]
pH of final Leachate	pH units	0	AN101	4.93	[NT]	[NT]	[NR]	[NR]
Date Extracted				21/02/2011	[NT]	[NT]	LCS	18/02/2011
Date Analysed				21/02/2011	[NT]	[NT]	LCS	18/02/2011
Benzo[a]pyrene	µg/L	0.5	SEO-030	<0.50	[NT]	[NT]	LCS	100%
Nitrobenzene-d5	%	0	SEO-030	92	[NT]	[NT]	LCS	107%
2-Fluorobiphenyl	%	0	SEO-030	124	[NT]	[NT]	LCS	98%
p -Terphenyl-*d* 14	%	0	SEO-030	122	[NT]	[NT]	LCS	95%

QUALITY CONTROL Metals in TCLP	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
pH of soil for fluid# determ.	pH units	0	AN101	[NT]	[NT]	[NT]	[NR]	[NR]
pH of soil for fluid # determ. (acid)	pH units	0	AN101	[NT]	[NT]	[NT]	[NR]	[NR]
Extraction fluid used	-		AN006	1	[NT]	[NT]	[NR]	[NR]
pH of final Leachate	pH units	0	AN101	4.93	[NT]	[NT]	[NR]	[NR]
Date Extracted (Metals)				21/02/2011	[NT]	[NT]	LCS	21/02/2011
Date Analysed (Metals)				21/02/2011	[NT]	[NT]	LCS	21/02/2011
Lead	mg/L	0.02	SEM-010	<0.02	[NT]	[NT]	LCS	97%

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Result Codes

[INS] : Insufficient Sample for this test
[NR] : Not Requested
[NT] : Not tested
[LOR] : Limit of reporting
[RPD] : Relative Percentage Difference
* : Not part of NATA Accreditation
[N/A] : Not Applicable

Report Comments

Samples analysed as received. Solid samples expressed on a dry weight basis.
Date Organics extraction commenced:
NATA Corporate Accreditation No. 2562, Site No 4354
Note: Test results are not corrected for recovery (excluding Air-toxics and Dioxins/Furans*)
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Quality Control Protocol

Method Blank: An analyte free matrix to which all reagents are added in the same volume or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. A method blank is prepared every 20 samples.
Duplicate: A separate portion of a sample being analysed that is treated the same as the other samples in the batch. One duplicate is processed at least every 10 samples.
Surrogate Spike: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are added to samples before extraction to monitor extraction efficiency and percent recovery in each sample.
Internal Standard: Added to all samples requiring analysis for organics (where relevant) or metals by ICP after the extraction/digestion process; the compounds/elements serve to give a standard of retention time and/or response, which is invariant from run-to-run with the instruments.
Laboratory Control Sample: A known matrix spiked with compound(s) representative of the target analytes. It is used to document laboratory performance. When the results of the matrix spike analysis indicates a potential problem due to the sample matrix itself, the LCS results are used to verify that the laboratory can perform the analysis in a clean matrix.
Matrix Spike: An aliquot of sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Quality Acceptance Criteria

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: http://www.au.sgs.com/sgs-mp-au-env-qu-022-qa-qc-plan-en-09.pdf

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ANALYTICAL REPORT

16 February 2011

Coffey Environments Pty Ltd
Level 1, 3 Rider Boulevard
RHODES
NSW 2138

Attention: **Nalin De Silva**

Your Reference: ENAURHOD04108AA

Our Reference: SE85223 Samples: 122 Soils, 4 Waters
Received: 4/02/2011

Preliminary Report Sent: 10/02/11& 14/02/11

These samples were analysed in accordance with your written instructions.

Sample R39_0.9-1.0 : matched ID with colour from bag portion.

Soil samples labelled BHP1_0.12-0.2, 0.5-0.6, 1.0-1.1, 2.0-2.1, 3.0-3.1 and 4.0-4.1 were not received.

QC15 (SE85223-56) and QC17 (SE85223-58),SGS did not receive separate ziplock bags for Asbestos ID and Quant. As such the results for these two samples will be found in SGS report SE85223A-as a NON-NATA endorsed report.

For and on Behalf of:
SGS ENVIRONMENTAL SERVICES

Sample Receipt: Angela Mamalicos AU.SampleReceipt.Sydney@sgs.com
Production Manager: Huong Crawford Huong.Crawford@sgs.com

Dong Liang
Quality Manager

Ravee Sivasubramaniam
Asbestos Signatory

Results Approved and/or Authorised by:

Ly Kim Ha
Organics Signatory
Organics Signatory

Huong Crawford
Metals Signatory

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BTEX in Soil Our Reference: Your Reference Sample Matrix Date Sampled	UNITS --- ---	SE85223-2 R18 0.4-0.5 Soil 2/02/2011	SE85223-5 R18 2.9-3.0 Soil 2/02/2011	SE85223-9 R19 0.9-1.0 Soil 3/02/2011	SE85223-12 R19 3.9-4.0 Soil 3/02/2011	SE85223-13 R20 0.2-0.3 Soil 3/02/2011
Date Extracted (BTEX)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Date Analysed (BTEX)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Benzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
BTEX Surrogate (%)	%	81	76	87	79	97

BTEX in Soil Our Reference: Your Reference Sample Matrix Date Sampled	UNITS --- ---	SE85223-15 R20 0.9-1.0 Soil 3/02/2011	SE85223-21 R16 0.9-1.0 Soil 3/02/2011	SE85223-23 R16 2.9-3.0 Soil 3/02/2011	SE85223-27 R42 0.9-1.0 Soil 3/02/2011	SE85223-30 R42 3.9-4.0 Soil 3/02/2011
Date Extracted (BTEX)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Date Analysed (BTEX)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Benzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
BTEX Surrogate (%)	%	79	84	92	83	87

BTEX in Soil Our Reference: Your Reference Sample Matrix Date Sampled	UNITS --- ---	SE85223-31 R40 0.0-0.1 Soil 3/02/2011	SE85223-32 R40 0.4-0.5 Soil 3/02/2011	SE85223-39 R39 0.9-1.0 Soil 3/02/2011	SE85223-41 R39 2.9-3.0 Soil 3/02/2011	SE85223-46 R38 1.9-2.0 Soil 3/02/2011
Date Extracted (BTEX)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Date Analysed (BTEX)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Benzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
BTEX Surrogate (%)	%	87	79	76	89	71

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BTEX in Soil Our Reference: Your Reference Sample Matrix Date Sampled	UNITS --- ---	SE85223-48 R38 3.9-4.0 Soil 3/02/2011	SE85223-50 R28 0.4-0.5 Soil 3/02/2011	SE85223-52 R28 1.9-2.0 Soil 3/02/2011	SE85223-56 QC15 Soil 3/02/2011	SE85223-58 QC17 Soil 3/02/2011
Date Extracted (BTEX)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Date Analysed (BTEX)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Benzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
BTEX Surrogate (%)	%	79	91	68	77	87

BTEX in Soil Our Reference: Your Reference Sample Matrix Date Sampled	UNITS --- ---	SE85223-63 R29 0.9-1.0 Soil 4/02/2011	SE85223-65 R29 2.9-3.0 Soil 4/02/2011	SE85223-67 R30 0.0-0.1 Soil 4/02/2011	SE85223-69 R30 0.9-1.0 Soil 4/02/2011	SE85223-74 R41 0.4-0.5 Soil 4/02/2011
Date Extracted (BTEX)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Date Analysed (BTEX)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Benzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
BTEX Surrogate (%)	%	89	67	89	74	73

BTEX in Soil Our Reference: Your Reference Sample Matrix Date Sampled	UNITS --- ---	SE85223-77 R41 2.9-3.0 Soil 4/02/2011	SE85223-84 I3 3.9-4.0 Soil 4/02/2011	SE85223-85 I3 5.4-5.5 Soil 4/02/2011	SE85223-86 I3 6.9-7.0 Soil 4/02/2011	SE85223-87 QC20 Soil 4/02/2011
Date Extracted (BTEX)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Date Analysed (BTEX)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Benzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
BTEX Surrogate (%)	%	74	62	61	79	86

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BTEX in Soil Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ----------	SE85223-102 BHP5 0.5-0.6 Soil 3/02/2011	SE85223-103 DUP 6 Soil 3/02/2011	SE85223-104 BHP5 0.9-1.0 Soil 3/02/2011	SE85223-105 BHP5 2.0-2.1 Soil 3/02/2011	SE85223-107 BHP8 0.1-0.2 Soil 3/02/2011
Date Extracted (BTEX)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Date Analysed (BTEX)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Benzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
BTEX Surrogate (%)	%	69	92	120	93	91

BTEX in Soil Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ----------	SE85223-108 BHP8 0.5-0.6 Soil 3/02/2011	SE85223-110 BHP8 2.0-2.1 Soil 3/02/2011	SE85223-115 BHP9 0.5-0.6 Soil 3/02/2011	SE85223-116 DUP 7 Soil 3/02/2011	SE85223-117 BHP9 0.9-1.0 Soil 3/02/2011
Date Extracted (BTEX)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Date Analysed (BTEX)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Benzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
BTEX Surrogate (%)	%	68	76	69	70	105

BTEX in Soil Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ----------	SE85223-125 BHD2 3.9-4.0 Soil 4/02/2011	SE85223-127 BHD2 8.0-8.1 Soil 4/02/2011	SE85223-128 BHD2 10.0-10.1 Soil 4/02/2011
Date Extracted (BTEX)		9/02/2011	9/02/2011	9/02/2011
Date Analysed (BTEX)		9/02/2011	9/02/2011	9/02/2011
Benzene	mg/kg	<0.1	<0.1	<0.1
Toluene	mg/kg	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	<0.3	<0.3	<0.3
BTEX Surrogate (%)	%	101	62	76

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TRH in soil with C6-C9 by P/T Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ---------- ----------	SE85223-2 R18 0.4-0.5 Soil 2/02/2011	SE85223-5 R18 2.9-3.0 Soil 2/02/2011	SE85223-9 R19 0.9-1.0 Soil 3/02/2011	SE85223-12 R19 3.9-4.0 Soil 3/02/2011	SE85223-13 R20 0.2-0.3 Soil 3/02/2011
Date Extracted (TRH C6-C9 PT)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Date Analysed (TRH C6-C9 PT)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
TRH C_6 - C_9 P&T	mg/kg	<20	<20	<20	<20	<20
Date Extracted (TRH C10-C36)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Date Analysed (TRH C10-C36)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
TRH C_{10} - C_{14}	mg/kg	<20	<20	<20	<20	<20
TRH C_{15} - C_{28}	mg/kg	160	400	<50	940	<50
TRH C_{29} - C_{36}	mg/kg	180	380	<50	280	<50

TRH in soil with C6-C9 by P/T Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ---------- ----------	SE85223-15 R20 0.9-1.0 Soil 3/02/2011	SE85223-21 R16 0.9-1.0 Soil 3/02/2011	SE85223-23 R16 2.9-3.0 Soil 3/02/2011	SE85223-27 R42 0.9-1.0 Soil 3/02/2011	SE85223-30 R42 3.9-4.0 Soil 3/02/2011
Date Extracted (TRH C6-C9 PT)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Date Analysed (TRH C6-C9 PT)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
TRH C_6 - C_9 P&T	mg/kg	<20	<20	<20	<20	<20
Date Extracted (TRH C10-C36)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Date Analysed (TRH C10-C36)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
TRH C_{10} - C_{14}	mg/kg	<20	<20	<20	<20	<20
TRH C_{15} - C_{28}	mg/kg	590	<50	2,400	<50	<50
TRH C_{29} - C_{36}	mg/kg	390	<50	1,300	<50	<50

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TRH in soil with C6-C9 by P/T Our Reference: Your Reference Sample Matrix Date Sampled	UNITS --- ---	SE85223-31 R40 0.0-0.1 Soil 3/02/2011	SE85223-32 R40 0.4-0.5 Soil 3/02/2011	SE85223-39 R39 0.9-1.0 Soil 3/02/2011	SE85223-41 R39 2.9-3.0 Soil 3/02/2011	SE85223-46 R38 1.9-2.0 Soil 3/02/2011
Date Extracted (TRH C6-C9 PT)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Date Analysed (TRH C6-C9 PT)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
TRH C_6 - C_9 P&T	mg/kg	<20	<20	<20	<20	<20
Date Extracted (TRH C10-C36)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Date Analysed (TRH C10-C36)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
TRH C_{10} - C_{14}	mg/kg	<20	<20	<20	<20	<20
TRH C_{15} - C_{28}	mg/kg	98	260	74	64	<50
TRH C_{29} - C_{36}	mg/kg	83	130	<50	<50	<50

TRH in soil with C6-C9 by P/T Our Reference: Your Reference Sample Matrix Date Sampled	UNITS --- ---	SE85223-48 R38 3.9-4.0 Soil 3/02/2011	SE85223-50 R28 0.4-0.5 Soil 3/02/2011	SE85223-52 R28 1.9-2.0 Soil 3/02/2011	SE85223-56 QC15 Soil 3/02/2011	SE85223-58 QC17 Soil 3/02/2011
Date Extracted (TRH C6-C9 PT)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Date Analysed (TRH C6-C9 PT)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
TRH C_6 - C_9 P&T	mg/kg	<20	<20	<20	<20	<20
Date Extracted (TRH C10-C36)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Date Analysed (TRH C10-C36)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
TRH C_{10} - C_{14}	mg/kg	<20	<20	<20	<20	<20
TRH C_{15} - C_{28}	mg/kg	<50	100	<50	75	380
TRH C_{29} - C_{36}	mg/kg	<50	58	<50	<50	160

TRH in soil with C6-C9 by P/T Our Reference: Your Reference Sample Matrix Date Sampled	UNITS --- ---	SE85223-63 R29 0.9-1.0 Soil 4/02/2011	SE85223-65 R29 2.9-3.0 Soil 4/02/2011	SE85223-67 R30 0.0-0.1 Soil 4/02/2011	SE85223-69 R30 0.9-1.0 Soil 4/02/2011	SE85223-74 R41 0.4-0.5 Soil 4/02/2011
Date Extracted (TRH C6-C9 PT)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Date Analysed (TRH C6-C9 PT)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
TRH C_6 - C_9 P&T	mg/kg	<20	<20	<20	<20	<20
Date Extracted (TRH C10-C36)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Date Analysed (TRH C10-C36)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
TRH C_{10} - C_{14}	mg/kg	<20	<20	<20	<20	<20
TRH C_{15} - C_{28}	mg/kg	<50	<50	250	<50	<50
TRH C_{29} - C_{36}	mg/kg	<50	<50	600	<50	<50

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TRH in soil with C6-C9 by P/T Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ---------- ----------	SE85223-77 R41 2.9-3.0 Soil 4/02/2011	SE85223-84 I3 3.9-4.0 Soil 4/02/2011	SE85223-85 I3 5.4-5.5 Soil 4/02/2011	SE85223-86 I3 6.9-7.0 Soil 4/02/2011	SE85223-87 QC20 Soil 4/02/2011
Date Extracted (TRH C6-C9 PT)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Date Analysed (TRH C6-C9 PT)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
TRH C_6 - C_9 P&T	mg/kg	<20	<20	<20	<20	<20
Date Extracted (TRH C10-C36)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Date Analysed (TRH C10-C36)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
TRH C_{10} - C_{14}	mg/kg	<20	<20	<20	<20	<20
TRH C_{15} - C_{28}	mg/kg	<50	250	62	<50	71
TRH C_{29} - C_{36}	mg/kg	<50	130	<50	<50	86

TRH in soil with C6-C9 by P/T Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ---------- ----------	SE85223-102 BHP5 0.5-0.6 Soil 3/02/2011	SE85223-103 DUP 6 Soil 3/02/2011	SE85223-104 BHP5 0.9-1.0 Soil 3/02/2011	SE85223-105 BHP5 2.0-2.1 Soil 3/02/2011	SE85223-107 BHP8 0.1-0.2 Soil 3/02/2011
Date Extracted (TRH C6-C9 PT)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Date Analysed (TRH C6-C9 PT)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
TRH C_6 - C_9 P&T	mg/kg	<20	<20	<20	<20	<20
Date Extracted (TRH C10-C36)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Date Analysed (TRH C10-C36)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
TRH C_{10} - C_{14}	mg/kg	<20	<20	<20	<20	<20
TRH C_{15} - C_{28}	mg/kg	<50	<50	<50	<50	<50
TRH C_{29} - C_{36}	mg/kg	<50	<50	<50	<50	<50

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TRH in soil with C6-C9 by P/T Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ---------- ----------	SE85223-108 BHP8 0.5-0.6 Soil 3/02/2011	SE85223-110 BHP8 2.0-2.1 Soil 3/02/2011	SE85223-115 BHP9 0.5-0.6 Soil 3/02/2011	SE85223-116 DUP 7 Soil 3/02/2011	SE85223-117 BHP9 0.9-1.0 Soil 3/02/2011
Date Extracted (TRH C6-C9 PT)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Date Analysed (TRH C6-C9 PT)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
TRH C_6 - C_9 P&T	mg/kg	<20	<20	<20	<20	<20
Date Extracted (TRH C10-C36)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Date Analysed (TRH C10-C36)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
TRH C_{10} - C_{14}	mg/kg	<20	<20	<20	<20	<20
TRH C_{15} - C_{28}	mg/kg	<50	<50	<50	<50	<50
TRH C_{29} - C_{36}	mg/kg	<50	<50	<50	<50	<50

TRH in soil with C6-C9 by P/T Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ---------- ----------	SE85223-125 BHD2 3.9-4.0 Soil 4/02/2011	SE85223-127 BHD2 8.0-8.1 Soil 4/02/2011	SE85223-128 BHD2 10.0-10.1 Soil 4/02/2011
Date Extracted (TRH C6-C9 PT)		9/02/2011	9/02/2011	9/02/2011
Date Analysed (TRH C6-C9 PT)		9/02/2011	9/02/2011	9/02/2011
TRH C_6 - C_9 P&T	mg/kg	<20	<20	<20
Date Extracted (TRH C10-C36)		9/02/2011	9/02/2011	9/02/2011
Date Analysed (TRH C10-C36)		9/02/2011	9/02/2011	9/02/2011
TRH C_{10} - C_{14}	mg/kg	<20	<20	<20
TRH C_{15} - C_{28}	mg/kg	<50	<50	<50
TRH C_{29} - C_{36}	mg/kg	<50	<50	<50

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PAHs in Soil Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ---------- ----------	SE85223-2 R18 0.4-0.5 Soil 2/02/2011	SE85223-5 R18 2.9-3.0 Soil 2/02/2011	SE85223-9 R19 0.9-1.0 Soil 3/02/2011	SE85223-12 R19 3.9-4.0 Soil 3/02/2011	SE85223-13 R20 0.2-0.3 Soil 3/02/2011
Date Extracted		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Date Analysed		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Naphthalene	mg/kg	0.20	0.52	<0.10	2.2	0.12
Acenaphthylene	mg/kg	0.28	0.87	0.16	1.9	0.21
Acenaphthene	mg/kg	0.19	0.37	<0.10	4.9	0.10
Fluorene	mg/kg	0.29	0.78	<0.10	13	<0.10
Phenanthrene	mg/kg	2.6	7.2	0.28	73	1.5
Anthracene	mg/kg	1.0	2.3	0.17	22	0.56
Fluoranthene	mg/kg	5.2	9.2	0.99	52	2.9
Pyrene	mg/kg	5.2	9.1	1.2	48	3.2
Benzo[*a*]anthracene	mg/kg	4.0	7.1	0.75	32	2.5
Chrysene	mg/kg	2.4	4.1	0.48	15	1.4
Benzo[*b*]fluoranthene	mg/kg	6.5	8.0	0.9	22	2.6
Benzo[*k*]fluoranthene	mg/kg	4.4	2.2	0.29	4.7	0.77
Benzo[*a*]pyrene	mg/kg	3.1	5.2	0.75	18	1.8
Indeno[*123-cd*]pyrene	mg/kg	1.9	3.1	0.59	5.9	1.1
Dibenzo[*ah*]anthracene	mg/kg	0.44	0.75	0.10	1.5	0.26
Benzo[*ghi*]perylene	mg/kg	2.6	3.9	1.1	6.6	1.5
Total PAHs (sum)	mg/kg	40	65	<8.08	320	<20.63
Nitrobenzene-d5	%	128	77	118	124	121
2-Fluorobiphenyl	%	115	73	117	123	109
p -Terphenyl-*d14*	%	102	77	103	113	98

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PAHs in Soil Our Reference: Your Reference Sample Matrix Date Sampled	UNITS --- ---	SE85223-15 R20 0.9-1.0 Soil 3/02/2011	SE85223-21 R16 0.9-1.0 Soil 3/02/2011	SE85223-23 R16 2.9-3.0 Soil 3/02/2011	SE85223-27 R42 0.9-1.0 Soil 3/02/2011	SE85223-30 R42 3.9-4.0 Soil 3/02/2011
Date Extracted		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Date Analysed		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Naphthalene	mg/kg	0.85	<0.10	3.3	<0.10	<0.10
Acenaphthylene	mg/kg	1.7	0.12	9.6	0.10	<0.10
Acenaphthene	mg/kg	0.31	<0.10	1.3	<0.10	<0.10
Fluorene	mg/kg	0.73	<0.10	8.2	<0.10	<0.10
Phenanthrene	mg/kg	10	0.67	153	0.40	<0.10
Anthracene	mg/kg	3.3	0.25	39	0.22	<0.10
Fluoranthene	mg/kg	16	1.3	154	1.1	<0.10
Pyrene	mg/kg	16	1.3	141	1.2	<0.10
Benzo[*a*]anthracene	mg/kg	13	0.95	91	0.83	<0.10
Chrysene	mg/kg	7.6	0.55	50	0.53	<0.10
Benzo[*b*]fluoranthene	mg/kg	14	1.1	77	1.0	<0.1
Benzo[*k*]fluoranthene	mg/kg	3.2	0.34	25	0.33	<0.10
Benzo[*a*]pyrene	mg/kg	9.2	0.78	58	0.72	<0.10
Indeno[*123-cd*]pyrene	mg/kg	5.6	0.41	27	0.36	<0.10
Dibenzo[*ah*]anthracene	mg/kg	1.4	<0.10	5.8	<0.10	<0.10
Benzo[*ghi*]perylene	mg/kg	7.0	0.54	35	0.48	<0.10
Total PAHs (sum)	mg/kg	110	<8.74	880	<7.69	<2
Nitrobenzene-d5	%	125	120	113	107	105
2-Fluorobiphenyl	%	118	108	113	103	98
p -Terphenyl-*d14*	%	105	96	101	103	95

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PAHs in Soil Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ---------- ----------	SE85223-31 R40 0.0-0.1 Soil 3/02/2011	SE85223-32 R40 0.4-0.5 Soil 3/02/2011	SE85223-39 R39 0.9-1.0 Soil 3/02/2011	SE85223-41 R39 2.9-3.0 Soil 3/02/2011	SE85223-46 R38 1.9-2.0 Soil 3/02/2011
Date Extracted		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Date Analysed		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Naphthalene	mg/kg	0.12	0.33	0.13	<0.10	<0.10
Acenaphthylene	mg/kg	0.35	0.59	0.41	0.26	0.12
Acenaphthene	mg/kg	<0.10	0.73	<0.10	<0.10	<0.10
Fluorene	mg/kg	0.12	0.82	0.14	<0.10	<0.10
Phenanthrene	mg/kg	1.6	9.6	2.3	1.0	0.49
Anthracene	mg/kg	0.57	2.9	0.73	0.40	0.21
Fluoranthene	mg/kg	2.7	10	3.2	2.0	1.0
Pyrene	mg/kg	2.7	9.3	3.3	2.1	1.1
Benzo[*a*]anthracene	mg/kg	2.2	7.4	2.3	1.6	0.76
Chrysene	mg/kg	1.0	3.9	1.4	0.82	0.39
Benzo[*b*]fluoranthene	mg/kg	2.3	7.2	2.6	2.0	0.7
Benzo[*k*]fluoranthene	mg/kg	0.57	2.1	0.82	0.49	0.34
Benzo[*a*]pyrene	mg/kg	1.6	4.8	1.8	1.2	0.61
Indeno[*123-cd*]pyrene	mg/kg	0.88	2.5	0.91	0.63	0.28
Dibenzo[*ah*]anthracene	mg/kg	0.21	0.67	0.22	0.14	<0.10
Benzo[*ghi*]perylene	mg/kg	1.0	2.8	1.1	0.78	0.37
Total PAHs (sum)	mg/kg	<18.17	66	<21.44	<13.81	<6.84
Nitrobenzene-d5	%	116	115	113	123	112
2-Fluorobiphenyl	%	111	113	110	113	102
p -Terphenyl-*d14*	%	97	102	99	101	93

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PAHs in Soil Our Reference: Your Reference Sample Matrix Date Sampled	UNITS --- ---	SE85223-48 R38 3.9-4.0 Soil 3/02/2011	SE85223-50 R28 0.4-0.5 Soil 3/02/2011	SE85223-52 R28 1.9-2.0 Soil 3/02/2011	SE85223-56 QC15 Soil 3/02/2011	SE85223-58 QC17 Soil 3/02/2011
Date Extracted		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Date Analysed		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Naphthalene	mg/kg	<0.10	0.11	<0.10	0.13	0.26
Acenaphthylene	mg/kg	<0.10	0.44	0.19	0.17	2.4
Acenaphthene	mg/kg	<0.10	<0.10	<0.10	0.17	0.33
Fluorene	mg/kg	<0.10	0.19	<0.10	<0.10	2.0
Phenanthrene	mg/kg	0.23	2.7	0.86	2.5	16
Anthracene	mg/kg	0.11	0.90	0.33	0.73	3.7
Fluoranthene	mg/kg	0.39	3.6	1.7	3.9	13
Pyrene	mg/kg	0.42	3.6	1.7	4.0	11
Benzo[*a*]anthracene	mg/kg	0.26	2.9	1.2	3.0	8.5
Chrysene	mg/kg	0.17	1.3	0.68	1.5	4.4
Benzo[*b*]fluoranthene	mg/kg	0.3	2.6	1.3	2.7	7.4
Benzo[*k*]fluoranthene	mg/kg	0.12	0.84	0.46	0.95	1.8
Benzo[*a*]pyrene	mg/kg	0.23	1.9	0.95	2.1	4.8
Indeno[*123-cd*]pyrene	mg/kg	0.11	0.91	0.44	1.0	2.4
Dibenzo[*ah*]anthracene	mg/kg	<0.10	0.22	<0.10	0.24	0.60
Benzo[*ghi*]perylene	mg/kg	0.14	1.1	0.58	1.4	2.6
Total PAHs (sum)	mg/kg	<2.99	<23.44	<10.87	<24.77	82
Nitrobenzene-d5	%	107	119	110	117	122
2-Fluorobiphenyl	%	101	112	104	105	116
p -Terphenyl-*d14*	%	94	102	98	96	103

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PAHs in Soil Our Reference: Your Reference Sample Matrix Date Sampled	UNITS --- ---	SE85223-63 R29 0.9-1.0 Soil 4/02/2011	SE85223-65 R29 2.9-3.0 Soil 4/02/2011	SE85223-67 R30 0.0-0.1 Soil 4/02/2011	SE85223-69 R30 0.9-1.0 Soil 4/02/2011	SE85223-74 R41 0.4-0.5 Soil 4/02/2011
Date Extracted		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Date Analysed		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Naphthalene	mg/kg	<0.10	<0.10	0.18	<0.10	<0.10
Acenaphthylene	mg/kg	0.32	0.14	0.32	<0.10	0.14
Acenaphthene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Fluorene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Phenanthrene	mg/kg	1.2	0.84	1.5	0.18	0.57
Anthracene	mg/kg	0.46	0.36	0.49	<0.10	0.26
Fluoranthene	mg/kg	2.6	1.5	2.4	0.36	1.7
Pyrene	mg/kg	2.7	1.6	2.0	0.33	1.6
Benzo[*a*]anthracene	mg/kg	2.1	1.4	1.6	0.22	1.0
Chrysene	mg/kg	1.0	0.78	0.91	0.16	0.59
Benzo[*b*]fluoranthene	mg/kg	2.2	1.6	1.8	0.3	1.2
Benzo[*k*]fluoranthene	mg/kg	0.57	0.63	0.60	0.11	0.35
Benzo[*a*]pyrene	mg/kg	1.4	1.3	0.94	0.19	0.77
Indeno[*123-cd*]pyrene	mg/kg	0.67	0.66	0.56	0.10	0.35
Dibenzo[*ah*]anthracene	mg/kg	0.15	0.15	0.13	<0.10	<0.10
Benzo[*ghi*]perylene	mg/kg	0.85	0.87	0.71	0.12	0.43
Total PAHs (sum)	mg/kg	<16.68	<12.23	<14.32	<2.64	<9.34
Nitrobenzene-d5	%	116	116	122	109	112
2-Fluorobiphenyl	%	110	107	120	101	105
p -Terphenyl-*d14*	%	99	98	110	99	95

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PAHs in Soil Our Reference: Your Reference Sample Matrix Date Sampled	UNITS --- ---	SE85223-77 R41 2.9-3.0 Soil 4/02/2011	SE85223-84 I3 3.9-4.0 Soil 4/02/2011	SE85223-85 I3 5.4-5.5 Soil 4/02/2011	SE85223-86 I3 6.9-7.0 Soil 4/02/2011	SE85223-87 QC20 Soil 4/02/2011
Date Extracted		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Date Analysed		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Naphthalene	mg/kg	<0.10	0.35	0.19	<0.10	<0.10
Acenaphthylene	mg/kg	<0.10	1.1	0.57	0.22	0.29
Acenaphthene	mg/kg	<0.10	0.27	0.11	<0.10	<0.10
Fluorene	mg/kg	<0.10	1.4	0.53	0.19	<0.10
Phenanthrene	mg/kg	0.26	12	4.9	1.5	1.4
Anthracene	mg/kg	0.13	3.0	1.4	0.46	0.49
Fluoranthene	mg/kg	0.57	11	4.9	2.3	2.4
Pyrene	mg/kg	0.54	9.7	4.6	2.2	2.5
Benzo[*a*]anthracene	mg/kg	0.31	7.8	3.2	1.5	1.8
Chrysene	mg/kg	0.22	3.7	1.5	0.87	0.98
Benzo[*b*]fluoranthene	mg/kg	0.3	7.2	2.9	1.4	1.7
Benzo[*k*]fluoranthene	mg/kg	0.13	2.3	0.86	0.67	0.62
Benzo[*a*]pyrene	mg/kg	0.25	4.9	2.1	1.2	1.3
Indeno[*123-cd*]pyrene	mg/kg	0.10	2.7	0.97	0.54	0.64
Dibenzo[*ah*]anthracene	mg/kg	<0.10	0.59	0.20	0.15	0.17
Benzo[*ghi*]perylene	mg/kg	0.14	3.2	1.2	0.70	0.80
Total PAHs (sum)	mg/kg	<3.49	71	30	<14.09	<15.37
Nitrobenzene-d5	%	99	93	124	117	117
2-Fluorobiphenyl	%	97	108	115	113	121
p -Terphenyl-*d14*	%	99	101	99	105	112

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PAHs in Soil Our Reference:	UNITS	SE85223-102	SE85223-103	SE85223-104	SE85223-105	SE85223-107
Your Reference	----------	BHP5 0.5-0.6	DUP 6	BHP5 0.9-1.0	BHP5 2.0-2.1	BHP8 0.1-0.2
Sample Matrix	----------	Soil	Soil	Soil	Soil	Soil
Date Sampled		3/02/2011	3/02/2011	3/02/2011	3/02/2011	3/02/2011
Date Extracted		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Date Analysed		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Naphthalene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Acenaphthylene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Acenaphthene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Fluorene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Phenanthrene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Anthracene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Fluoranthene	mg/kg	<0.10	0.17	<0.10	<0.10	<0.10
Pyrene	mg/kg	<0.10	0.16	<0.10	<0.10	<0.10
Benzo[*a*]anthracene	mg/kg	<0.10	0.13	<0.10	<0.10	<0.10
Chrysene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Benzo[*b*]fluoranthene	mg/kg	<0.1	0.1	<0.1	<0.1	<0.1
Benzo[*k*]fluoranthene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Benzo[*a*]pyrene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Indeno[*123-cd*]pyrene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Dibenzo[*ah*]anthracene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Benzo[*ghi*]perylene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Total PAHs (sum)	mg/kg	<2	<1.79	<2	<2	<2
Nitrobenzene-d5	%	119	122	124	130	120
2-Fluorobiphenyl	%	117	109	102	105	107
p -Terphenyl-*d14*	%	110	103	98	102	101

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PAHs in Soil Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ----------	SE85223-108 BHP8 0.5-0.6 Soil 3/02/2011	SE85223-110 BHP8 2.0-2.1 Soil 3/02/2011	SE85223-115 BHP9 0.5-0.6 Soil 3/02/2011	SE85223-116 DUP 7 Soil 3/02/2011	SE85223-117 BHP9 0.9-1.0 Soil 3/02/2011
Date Extracted		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Date Analysed		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Naphthalene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Acenaphthylene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Acenaphthene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Fluorene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Phenanthrene	mg/kg	<0.10	<0.10	0.13	0.30	<0.10
Anthracene	mg/kg	<0.10	<0.10	<0.10	0.16	<0.10
Fluoranthene	mg/kg	<0.10	<0.10	0.37	0.60	<0.10
Pyrene	mg/kg	<0.10	<0.10	0.37	0.64	<0.10
Benzo[*a*]anthracene	mg/kg	<0.10	<0.10	0.20	0.38	<0.10
Chrysene	mg/kg	<0.10	<0.10	0.14	0.33	<0.10
Benzo[*b*]fluoranthene	mg/kg	<0.1	<0.1	0.2	0.5	<0.1
Benzo[*k*]fluoranthene	mg/kg	<0.10	<0.10	0.12	0.20	<0.10
Benzo[*a*]pyrene	mg/kg	<0.10	<0.10	0.18	0.33	<0.10
Indeno[*123-cd*]pyrene	mg/kg	<0.10	<0.10	<0.10	0.14	<0.10
Dibenzo[*ah*]anthracene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Benzo[*ghi*]perylene	mg/kg	<0.10	<0.10	0.11	0.19	<0.10
Total PAHs (sum)	mg/kg	<2	<2	<2.56	<4.26	<2
Nitrobenzene-d5	%	120	122	103	117	123
2-Fluorobiphenyl	%	104	102	96	113	104
p -Terphenyl-*d14*	%	99	101	95	107	99

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PAHs in Soil Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ----------	SE85223-125 BHD2 3.9-4.0 Soil 4/02/2011	SE85223-127 BHD2 8.0-8.1 Soil 4/02/2011	SE85223-128 BHD2 10.0-10.1 Soil 4/02/2011
Date Extracted		9/02/2011	9/02/2011	9/02/2011
Date Analysed		9/02/2011	9/02/2011	9/02/2011
Naphthalene	mg/kg	<0.10	<0.10	<0.10
Acenaphthylene	mg/kg	<0.10	0.17	<0.10
Acenaphthene	mg/kg	<0.10	<0.10	<0.10
Fluorene	mg/kg	<0.10	0.20	<0.10
Phenanthrene	mg/kg	<0.10	1.4	0.15
Anthracene	mg/kg	<0.10	0.73	<0.10
Fluoranthene	mg/kg	<0.10	2.3	0.53
Pyrene	mg/kg	<0.10	2.2	0.55
Benzo[*a*]anthracene	mg/kg	<0.10	1.6	0.27
Chrysene	mg/kg	<0.10	0.77	0.16
Benzo[*b*]fluoranthene	mg/kg	<0.1	1.3	0.3
Benzo[*k*]fluoranthene	mg/kg	<0.10	0.50	0.13
Benzo[*a*]pyrene	mg/kg	<0.10	1.1	0.31
Indeno[*123-cd*]pyrene	mg/kg	<0.10	0.48	<0.10
Dibenzo[*ah*]anthracene	mg/kg	<0.10	0.11	<0.10
Benzo[*ghi*]perylene	mg/kg	<0.10	0.59	<0.10
Total PAHs (sum)	mg/kg	<2	<13.83	<3.18
Nitrobenzene-d5	%	111	80	113
2-Fluorobiphenyl	%	105	76	106
p -Terphenyl-*d14*	%	98	99	101

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Metals in Soil by ICP-OES Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ---------- ----------	SE85223-2 R18 0.4-0.5 Soil 2/02/2011	SE85223-5 R18 2.9-3.0 Soil 2/02/2011	SE85223-9 R19 0.9-1.0 Soil 3/02/2011	SE85223-12 R19 3.9-4.0 Soil 3/02/2011	SE85223-13 R20 0.2-0.3 Soil 3/02/2011
Date Extracted (Metals)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Date Analysed (Metals)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Arsenic	mg/kg	20	9	6	4	3
Cadmium	mg/kg	0.5	1.0	0.4	<0.3	<0.3
Chromium	mg/kg	20	6.4	10	6.5	25
Copper	mg/kg	87	110	30	39	51
Lead	mg/kg	140	190	53	83	36
Nickel	mg/kg	6.8	11	3.8	4.4	6.2
Zinc	mg/kg	150	280	63	81	58

Metals in Soil by ICP-OES Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ---------- ----------	SE85223-15 R20 0.9-1.0 Soil 3/02/2011	SE85223-21 R16 0.9-1.0 Soil 3/02/2011	SE85223-23 R16 2.9-3.0 Soil 3/02/2011	SE85223-27 R42 0.9-1.0 Soil 3/02/2011	SE85223-30 R42 3.9-4.0 Soil 3/02/2011
Date Extracted (Metals)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Date Analysed (Metals)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Arsenic	mg/kg	7	9	7	3	6
Cadmium	mg/kg	0.4	0.7	1.7	<0.3	0.4
Chromium	mg/kg	12	25	11	6.8	5.2
Copper	mg/kg	94	27	270	13	9.1
Lead	mg/kg	210	120	670	24	50
Nickel	mg/kg	6.6	3.5	15	7.2	2.2
Zinc	mg/kg	110	190	720	44	19

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Metals in Soil by ICP-OES Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ---------- ----------	SE85223-31 R40 0.0-0.1 Soil 3/02/2011	SE85223-32 R40 0.4-0.5 Soil 3/02/2011	SE85223-39 R39 0.9-1.0 Soil 3/02/2011	SE85223-41 R39 2.9-3.0 Soil 3/02/2011	SE85223-46 R38 1.9-2.0 Soil 3/02/2011
Date Extracted (Metals)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Date Analysed (Metals)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Arsenic	mg/kg	8	8	22	10	5
Cadmium	mg/kg	1.3	0.91	1.3	1.2	0.4
Chromium	mg/kg	17	14	30	15	4.8
Copper	mg/kg	310	420	150	270	20
Lead	mg/kg	380	350	330	360	690
Nickel	mg/kg	22	26	23	13	3.2
Zinc	mg/kg	510	710	470	570	330

Metals in Soil by ICP-OES Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ---------- ----------	SE85223-48 R38 3.9-4.0 Soil 3/02/2011	SE85223-50 R28 0.4-0.5 Soil 3/02/2011	SE85223-52 R28 1.9-2.0 Soil 3/02/2011	SE85223-56 QC15 Soil 3/02/2011	SE85223-58 QC17 Soil 3/02/2011
Date Extracted (Metals)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Date Analysed (Metals)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Arsenic	mg/kg	5	8	9	<3	7
Cadmium	mg/kg	<0.3	3.6	0.7	<0.3	1.4
Chromium	mg/kg	10	16	20	36	15
Copper	mg/kg	7.6	160	130	35	500
Lead	mg/kg	110	260	240	30	380
Nickel	mg/kg	1.2	22	7.4	3.7	21
Zinc	mg/kg	49	480	190	55	540

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Metals in Soil by ICP-OES Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ---------- ----------	SE85223-63 R29 0.9-1.0 Soil 4/02/2011	SE85223-65 R29 2.9-3.0 Soil 4/02/2011	SE85223-67 R30 0.0-0.1 Soil 4/02/2011	SE85223-69 R30 0.9-1.0 Soil 4/02/2011	SE85223-74 R41 0.4-0.5 Soil 4/02/2011
Date Extracted (Metals)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Date Analysed (Metals)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Arsenic	mg/kg	9	4	8	4	5
Cadmium	mg/kg	0.90	1.2	2.7	0.4	<0.3
Chromium	mg/kg	20	7.5	18	9.1	7.3
Copper	mg/kg	98	44	220	39	57
Lead	mg/kg	250	240	330	1,300	96
Nickel	mg/kg	9.3	4.4	30	5.5	9.1
Zinc	mg/kg	220	790	550	220	180

Metals in Soil by ICP-OES Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ---------- ----------	SE85223-77 R41 2.9-3.0 Soil 4/02/2011	SE85223-84 I3 3.9-4.0 Soil 4/02/2011	SE85223-85 I3 5.4-5.5 Soil 4/02/2011	SE85223-86 I3 6.9-7.0 Soil 4/02/2011	SE85223-87 QC20 Soil 4/02/2011
Date Extracted (Metals)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Date Analysed (Metals)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Arsenic	mg/kg	6	4	4	14	5
Cadmium	mg/kg	0.3	0.4	<0.3	0.4	1.3
Chromium	mg/kg	9.2	9.5	13	12	10
Copper	mg/kg	27	59	33	55	41
Lead	mg/kg	100	140	430	770	260
Nickel	mg/kg	5.1	6.1	4.3	9.2	5.9
Zinc	mg/kg	72	160	140	200	870

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Metals in Soil by ICP-OES Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ---------- ----------	SE85223-102 BHP5 0.5-0.6 Soil 3/02/2011	SE85223-103 DUP 6 Soil 3/02/2011	SE85223-104 BHP5 0.9-1.0 Soil 3/02/2011	SE85223-105 BHP5 2.0-2.1 Soil 3/02/2011	SE85223-107 BHP8 0.1-0.2 Soil 3/02/2011
Date Extracted (Metals)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Date Analysed (Metals)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Arsenic	mg/kg	5	4	11	3	<3
Cadmium	mg/kg	<0.3	<0.3	<0.3	<0.3	0.5
Chromium	mg/kg	8.9	6.6	8.1	2.7	100
Copper	mg/kg	34	51	26	2.8	38
Lead	mg/kg	33	33	21	2	6
Nickel	mg/kg	6.7	6.1	3.4	0.7	77
Zinc	mg/kg	110	110	53	4.2	60

Metals in Soil by ICP-OES Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ---------- ----------	SE85223-108 BHP8 0.5-0.6 Soil 3/02/2011	SE85223-110 BHP8 2.0-2.1 Soil 3/02/2011	SE85223-115 BHP9 0.5-0.6 Soil 3/02/2011	SE85223-116 DUP 7 Soil 3/02/2011	SE85223-117 BHP9 0.9-1.0 Soil 3/02/2011
Date Extracted (Metals)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Date Analysed (Metals)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Arsenic	mg/kg	3	4	7	5	6
Cadmium	mg/kg	<0.3	0.4	0.3	0.3	<0.3
Chromium	mg/kg	27	8.1	7.1	6.5	7.6
Copper	mg/kg	27	3.0	100	88	31
Lead	mg/kg	15	32	100	90	21
Nickel	mg/kg	24	0.7	7.5	6.2	5.4
Zinc	mg/kg	46	35	130	120	150

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Metals in Soil by ICP-OES Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ---------- ----------	SE85223-125 BHD2 3.9-4.0 Soil 4/02/2011	SE85223-127 BHD2 8.0-8.1 Soil 4/02/2011	SE85223-128 BHD2 10.0-10.1 Soil 4/02/2011
Date Extracted (Metals)		9/02/2011	9/02/2011	9/02/2011
Date Analysed (Metals)		9/02/2011	9/02/2011	9/02/2011
Arsenic	mg/kg	5	7	13
Cadmium	mg/kg	<0.3	<0.3	0.4
Chromium	mg/kg	7.6	6.7	12
Copper	mg/kg	14	38	31
Lead	mg/kg	18	130	38
Nickel	mg/kg	11	7.6	7.0
Zinc	mg/kg	57	90	56

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Mercury Cold Vapor/Hg Analyser Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ---------- ----------	SE85223-2 R18 0.4-0.5 Soil 2/02/2011	SE85223-5 R18 2.9-3.0 Soil 2/02/2011	SE85223-9 R19 0.9-1.0 Soil 3/02/2011	SE85223-12 R19 3.9-4.0 Soil 3/02/2011	SE85223-13 R20 0.2-0.3 Soil 3/02/2011
Date Extracted (Mercury)		15/02/2011	15/02/2011	15/02/2011	15/02/2011	15/02/2011
Date Analysed (Mercury)		15/02/2011	15/02/2011	15/02/2011	15/02/2011	15/02/2011
Mercury	mg/kg	0.22	0.18	0.10	0.33	0.20

Mercury Cold Vapor/Hg Analyser Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ---------- ----------	SE85223-15 R20 0.9-1.0 Soil 3/02/2011	SE85223-21 R16 0.9-1.0 Soil 3/02/2011	SE85223-23 R16 2.9-3.0 Soil 3/02/2011	SE85223-27 R42 0.9-1.0 Soil 3/02/2011	SE85223-30 R42 3.9-4.0 Soil 3/02/2011
Date Extracted (Mercury)		15/02/2011	15/02/2011	15/02/2011	15/02/2011	15/02/2011
Date Analysed (Mercury)		15/02/2011	15/02/2011	15/02/2011	15/02/2011	15/02/2011
Mercury	mg/kg	0.36	0.17	0.27	0.51	0.05

Mercury Cold Vapor/Hg Analyser Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ---------- ----------	SE85223-31 R40 0.0-0.1 Soil 3/02/2011	SE85223-32 R40 0.4-0.5 Soil 3/02/2011	SE85223-39 R39 0.9-1.0 Soil 3/02/2011	SE85223-41 R39 2.9-3.0 Soil 3/02/2011	SE85223-46 R38 1.9-2.0 Soil 3/02/2011
Date Extracted (Mercury)		15/02/2011	15/02/2011	15/02/2011	15/02/2011	15/02/2011
Date Analysed (Mercury)		15/02/2011	15/02/2011	15/02/2011	15/02/2011	15/02/2011
Mercury	mg/kg	0.62	0.29	0.56	1.1	0.15

Mercury Cold Vapor/Hg Analyser Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ---------- ----------	SE85223-48 R38 3.9-4.0 Soil 3/02/2011	SE85223-50 R28 0.4-0.5 Soil 3/02/2011	SE85223-52 R28 1.9-2.0 Soil 3/02/2011	SE85223-56 QC15 Soil 3/02/2011	SE85223-58 QC17 Soil 3/02/2011
Date Extracted (Mercury)		15/02/2011	15/02/2011	15/02/2011	15/02/2011	15/02/2011
Date Analysed (Mercury)		15/02/2011	15/02/2011	15/02/2011	15/02/2011	15/02/2011
Mercury	mg/kg	0.08	0.45	0.22	0.10	0.51

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Mercury Cold Vapor/Hg Analyser Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ---------- ----------	SE85223-63 R29 0.9-1.0 Soil 4/02/2011	SE85223-65 R29 2.9-3.0 Soil 4/02/2011	SE85223-67 R30 0.0-0.1 Soil 4/02/2011	SE85223-69 R30 0.9-1.0 Soil 4/02/2011	SE85223-74 R41 0.4-0.5 Soil 4/02/2011
Date Extracted (Mercury)		15/02/2011	15/02/2011	15/02/2011	15/02/2011	15/02/2011
Date Analysed (Mercury)		15/02/2011	15/02/2011	15/02/2011	15/02/2011	15/02/2011
Mercury	mg/kg	0.29	0.30	0.44	0.15	0.16

Mercury Cold Vapor/Hg Analyser Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ---------- ----------	SE85223-77 R41 2.9-3.0 Soil 4/02/2011	SE85223-84 I3 3.9-4.0 Soil 4/02/2011	SE85223-85 I3 5.4-5.5 Soil 4/02/2011	SE85223-86 I3 6.9-7.0 Soil 4/02/2011	SE85223-87 QC20 Soil 4/02/2011
Date Extracted (Mercury)		15/02/2011	15/02/2011	15/02/2011	15/02/2011	15/02/2011
Date Analysed (Mercury)		15/02/2011	15/02/2011	15/02/2011	15/02/2011	15/02/2011
Mercury	mg/kg	0.12	0.25	2.1	0.99	0.28

Mercury Cold Vapor/Hg Analyser Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ---------- ----------	SE85223-102 BHP5 0.5-0.6 Soil 3/02/2011	SE85223-103 DUP 6 Soil 3/02/2011	SE85223-104 BHP5 0.9-1.0 Soil 3/02/2011	SE85223-105 BHP5 2.0-2.1 Soil 3/02/2011	SE85223-107 BHP8 0.1-0.2 Soil 3/02/2011
Date Extracted (Mercury)		15/02/2011	15/02/2011	15/02/2011	15/02/2011	15/02/2011
Date Analysed (Mercury)		15/02/2011	15/02/2011	15/02/2011	15/02/2011	15/02/2011
Mercury	mg/kg	0.06	0.05	<0.05	<0.05	<0.05

Mercury Cold Vapor/Hg Analyser Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ---------- ----------	SE85223-108 BHP8 0.5-0.6 Soil 3/02/2011	SE85223-110 BHP8 2.0-2.1 Soil 3/02/2011	SE85223-115 BHP9 0.5-0.6 Soil 3/02/2011	SE85223-116 DUP 7 Soil 3/02/2011	SE85223-117 BHP9 0.9-1.0 Soil 3/02/2011
Date Extracted (Mercury)		15/02/2011	15/02/2011	15/02/2011	15/02/2011	15/02/2011
Date Analysed (Mercury)		15/02/2011	15/02/2011	15/02/2011	15/02/2011	15/02/2011
Mercury	mg/kg	0.06	<0.05	0.11	0.10	<0.05

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Mercury Cold Vapor/Hg Analyser Our Reference:	UNITS	SE85223-125	SE85223-127	SE85223-128
Your Reference	----------	BHD2 3.9-4.0	BHD2 8.0-8.1	BHD2 10.0-10.1
Sample Matrix	----------	Soil	Soil	Soil
Date Sampled		4/02/2011	4/02/2011	4/02/2011
Date Extracted (Mercury)		15/02/2011	15/02/2011	15/02/2011
Date Analysed (Mercury)		15/02/2011	15/02/2011	15/02/2011
Mercury	mg/kg	0.59	0.07	0.05

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Asbestos ID in soil Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ---------- ----------	SE85223-2 R18 0.4-0.5 Soil 2/02/2011	SE85223-5 R18 2.9-3.0 Soil 2/02/2011	SE85223-9 R19 0.9-1.0 Soil 3/02/2011	SE85223-12 R19 3.9-4.0 Soil 3/02/2011	SE85223-13 R20 0.2-0.3 Soil 3/02/2011
Date Analysed		10/02/2011	10/02/2011	10/02/2011	10/02/2011	10/02/2011
Sample Description		140g Soil,Debris	220g Soil,Sand,Rocks	91g Clay,Rocks	105g Soil,Rocks	44g Soil,Sand,Rocks
Asbestos ID in soil	-	No asbestos detected Organic fibres detected	Chrysotile asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected

Asbestos ID in soil Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ---------- ----------	SE85223-15 R20 0.9-1.0 Soil 3/02/2011	SE85223-21 R16 0.9-1.0 Soil 3/02/2011	SE85223-23 R16 2.9-3.0 Soil 3/02/2011	SE85223-27 R42 0.9-1.0 Soil 3/02/2011	SE85223-30 R42 3.9-4.0 Soil 3/02/2011
Date Analysed		10/02/2011	10/02/2011	10/02/2011	10/02/2011	10/02/2011
Sample Description		53g Soil,Sand,Rocks	57g Soil,Sand,Rocks	66g Soil,Sand,Rocks	67g Soil,Sand,Rocks	130g Clay,sand
Asbestos ID in soil	-	No asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected

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Asbestos ID in soil Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ---------- ----------	SE85223-31 R40 0.0-0.1 Soil 3/02/2011	SE85223-32 R40 0.4-0.5 Soil 3/02/2011	SE85223-39 R39 0.9-1.0 Soil 3/02/2011	SE85223-41 R39 2.9-3.0 Soil 3/02/2011	SE85223-46 R38 1.9-2.0 Soil 3/02/2011
Date Analysed		10/02/2011	10/02/2011	10/02/2011	10/02/2011	10/02/2011
Sample Description		65g Soil,Sand,Rocks	47g Soil,Sand,Rocks	72g Soil,Sand,Rocks	75g Soil,Sand,Rocks,clay	95g Cement mixture
Asbestos ID in soil	-	Chrysotile asbestos detected Organic fibres detected	Chrysotile asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected	Chrysotile asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected

Asbestos ID in soil Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ---------- ----------	SE85223-48 R38 3.9-4.0 Soil 3/02/2011	SE85223-50 R28 0.4-0.5 Soil 3/02/2011	SE85223-52 R28 1.9-2.0 Soil 3/02/2011	SE85223-63 R29 0.9-1.0 Soil 4/02/2011	SE85223-65 R29 2.9-3.0 Soil 4/02/2011
Date Analysed		10/02/2011	10/02/2011	10/02/2011	10/02/2011	10/02/2011
Sample Description		95g Clay,Soil,Rocks	123g Soil,Rocks	103g Soil,Clay,Rocks	52g Soil,Rocks	108g Soil,Rocks
Asbestos ID in soil	-	No asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected	Chrysotile asbestos detected Organic fibres detected	Chrysotile asbestos detected Organic fibres detected

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Asbestos ID in soil Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ---------- ----------	SE85223-67 R30 0.0-0.1 Soil 4/02/2011	SE85223-69 R30 0.9-1.0 Soil 4/02/2011	SE85223-74 R41 0.4-0.5 Soil 4/02/2011	SE85223-77 R41 2.9-3.0 Soil 4/02/2011	SE85223-84 I3 3.9-4.0 Soil 4/02/2011
Date Analysed		10/02/2011	10/02/2011	10/02/2011	10/02/2011	10/02/2011
Sample Description		63g Soil,Rocks	59g Soil,Rocks	52g Soil,Rocks	111g Soil,Clay	47g Soil,Clay,Rocks
Asbestos ID in soil	-	No asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected	Chrysotile asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected

Asbestos ID in soil Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ---------- ----------	SE85223-85 I3 5.4-5.5 Soil 4/02/2011	SE85223-86 I3 6.9-7.0 Soil 4/02/2011	SE85223-102 BHP5 0.5-0.6 Soil 3/02/2011	SE85223-104 BHP5 0.9-1.0 Soil 3/02/2011	SE85223-105 BHP5 2.0-2.1 Soil 3/02/2011
Date Analysed		10/02/2011	10/02/2011	10/02/2011	10/02/2011	10/02/2011
Sample Description		53g Soil,Rocks, Sand	65g Soil,Rocks, Sand	68g Clay,Soil,Rocks	59g Soil,Clay,Rocks	69g Clay
Asbestos ID in soil	-	Chrysotile asbestos detected Organic fibres detected	Chrysotile asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected

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Asbestos ID in soil Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ---------- ----------	SE85223-107 BHP8 0.1-0.2 Soil 3/02/2011	SE85223-108 BHP8 0.5-0.6 Soil 3/02/2011	SE85223-109 BHP8 1.0-1.1 Soil 3/02/2011	SE85223-114 BHP9 0.1-0.2 Soil 3/02/2011	SE85223-115 BHP9 0.5-0.6 Soil 3/02/2011
Date Analysed		10/02/2011	10/02/2011	10/02/2011	10/02/2011	10/02/2011
Sample Description		42g Soil,Rocks, Sand	77g Soil,Rocks	67g Soil,Rocks	64g Soil,Rocks	60g Cement mixture,Rocks
Asbestos ID in soil	-	No asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected	Chrysotile asbestos detected Organic fibres detected

Asbestos ID in soil Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ---------- ----------	SE85223-117 BHP9 0.9-1.0 Soil 3/02/2011	SE85223-125 BHD2 3.9-4.0 Soil 4/02/2011	SE85223-127 BHD2 8.0-8.1 Soil 4/02/2011	SE85223-128 BHD2 10.0-10.1 Soil 4/02/2011
Date Analysed		10/02/2011	10/02/2011	10/02/2011	10/02/2011
Sample Description		34g Clay,Sand, Rocks	20g Clay,Sand, Rocks	26g Clay,Sand, Rocks	66g Clay,Sand, Rocks
Asbestos ID in soil	-	No asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected

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BTEX in Water (µg/L) Our Reference:	UNITS	SE85223-129	SE85223-130	SE85223-131	SE85223-132
Your Reference	----------	Water Trip Spike 4	Water Trip Blank 4	Water Trip Spike 2	Water Trip Blank 3
Sample Matrix	----------	Water	Water	Water	Water
Date Sampled		31/01/2011	31/01/2011	31/01/2011	31/01/2011
Date Extracted (BTEX)		8/02/2011	8/02/2011	8/02/2011	8/02/2011
Date Analysed (BTEX)		8/02/2011	8/02/2011	8/02/2011	8/02/2011
Benzene	µg/L	98%	<0.5	101%	<0.5
Toluene	µg/L	97%	<0.5	100%	<0.5
Ethylbenzene	µg/L	91%	<0.5	99%	<0.5
Total Xylenes	µg/L	91%	<1.5	99%	<1.5
Surrogate	%	86	113	80	125

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TRH C6-C9 by P/T ONLY-in water Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ---------- ----------	SE85223-130 Water Trip Blank 4 Water 31/01/2011	SE85223-132 Water Trip Blank 3 Water 31/01/2011
Date Extracted (TRH C6-C9 PT)		8/02/2011	8/02/2011
Date Analysed (TRH C6-C9 PT)		8/02/2011	8/02/2011
TRH C_6 - C_9 P&T in µg/L	µg/L	<40	<40

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Moisture Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ---------- ----------	SE85223-2 R18 0.4-0.5 Soil 2/02/2011	SE85223-5 R18 2.9-3.0 Soil 2/02/2011	SE85223-9 R19 0.9-1.0 Soil 3/02/2011	SE85223-12 R19 3.9-4.0 Soil 3/02/2011	SE85223-13 R20 0.2-0.3 Soil 3/02/2011
Date Analysed (moisture)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Moisture	%	15	12	12	10	11

Moisture Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ---------- ----------	SE85223-15 R20 0.9-1.0 Soil 3/02/2011	SE85223-21 R16 0.9-1.0 Soil 3/02/2011	SE85223-23 R16 2.9-3.0 Soil 3/02/2011	SE85223-27 R42 0.9-1.0 Soil 3/02/2011	SE85223-30 R42 3.9-4.0 Soil 3/02/2011
Date Analysed (moisture)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Moisture	%	14	19	14	12	16

Moisture Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ---------- ----------	SE85223-31 R40 0.0-0.1 Soil 3/02/2011	SE85223-32 R40 0.4-0.5 Soil 3/02/2011	SE85223-39 R39 0.9-1.0 Soil 3/02/2011	SE85223-41 R39 2.9-3.0 Soil 3/02/2011	SE85223-46 R38 1.9-2.0 Soil 3/02/2011
Date Analysed (moisture)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Moisture	%	10	14	14	14	23

Moisture Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ---------- ----------	SE85223-48 R38 3.9-4.0 Soil 3/02/2011	SE85223-50 R28 0.4-0.5 Soil 3/02/2011	SE85223-52 R28 1.9-2.0 Soil 3/02/2011	SE85223-56 QC15 Soil 3/02/2011	SE85223-58 QC17 Soil 3/02/2011
Date Analysed (moisture)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Moisture	%	14	9	13	12	3

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Moisture Our Reference:	UNITS	SE85223-63	SE85223-65	SE85223-67	SE85223-69	SE85223-74
Your Reference	----------	R29 0.9-1.0	R29 2.9-3.0	R30 0.0-0.1	R30 0.9-1.0	R41 0.4-0.5
Sample Matrix	----------	Soil	Soil	Soil	Soil	Soil
Date Sampled		4/02/2011	4/02/2011	4/02/2011	4/02/2011	4/02/2011
Date Analysed (moisture)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Moisture	%	7	11	6	9	12

Moisture Our Reference:	UNITS	SE85223-77	SE85223-84	SE85223-85	SE85223-86	SE85223-87
Your Reference	----------	R41 2.9-3.0	I3 3.9-4.0	I3 5.4-5.5	I3 6.9-7.0	QC20
Sample Matrix	----------	Soil	Soil	Soil	Soil	Soil
Date Sampled		4/02/2011	4/02/2011	4/02/2011	4/02/2011	4/02/2011
Date Analysed (moisture)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Moisture	%	14	10	18	38	11

Moisture Our Reference:	UNITS	SE85223-102	SE85223-103	SE85223-104	SE85223-105	SE85223-107
Your Reference	----------	BHP5 0.5-0.6	DUP 6	BHP5 0.9-1.0	BHP5 2.0-2.1	BHP8 0.1-0.2
Sample Matrix	----------	Soil	Soil	Soil	Soil	Soil
Date Sampled		3/02/2011	3/02/2011	3/02/2011	3/02/2011	3/02/2011
Date Analysed (moisture)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Moisture	%	17	17	24	21	11

Moisture Our Reference:	UNITS	SE85223-108	SE85223-110	SE85223-115	SE85223-116	SE85223-117
Your Reference	----------	BHP8 0.5-0.6	BHP8 2.0-2.1	BHP9 0.5-0.6	DUP 7	BHP9 0.9-1.0
Sample Matrix	----------	Soil	Soil	Soil	Soil	Soil
Date Sampled		3/02/2011	3/02/2011	3/02/2011	3/02/2011	3/02/2011
Date Analysed (moisture)		9/02/2011	9/02/2011	9/02/2011	9/02/2011	9/02/2011
Moisture	%	19	27	17	21	24

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Moisture Our Reference:	UNITS	SE85223-125	SE85223-127	SE85223-128
Your Reference	----------	BHD2 3.9-4.0	BHD2 8.0-8.1	BHD2 10.0-10.1
Sample Matrix	----------	Soil	Soil	Soil
Date Sampled		4/02/2011	4/02/2011	4/02/2011
Date Analysed (moisture)		9/02/2011	9/02/2011	9/02/2011
Moisture	%	10	20	19

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Method ID	Methodology Summary
SEO-018	BTEX / C6-C9 Hydrocarbons - Soil samples are extracted with methanol, purged and concentrated by a purge and trap apparatus, and then analysed using GC/MS technique. Water samples undergo the same analysis without the extraction step. Based on USEPA 5030B and 8260B.
SEO-020	Total Recoverable Hydrocarbons - determined by solvent extraction with dichloromethane / acetone for soils and dichloromethane for waters, followed by instrumentation analysis using GC/FID. Where applicable Solid Phase Extraction Manifold technique is used for aliphatic / aromatic fractionation.
SEO-030	Polynuclear Aromatic Hydrocarbons - determined by solvent extraction with dichloromethane / acetone for soils and dichloromethane for waters, followed by instrumentation analysis using GC/MS SIM mode.
SEM-010	Determination of elements by ICP-OES following appropriate sample preparation / digestion process. Based on USEPA 6010C / APHA 21st Edition, 3120B.
SEM-005	Mercury - determined by Cold-Vapour AAS following appropriate sample preparation or digestion process. Based on APHA 21st Edition, 3112B.
AN602	Analysed using in house method AN602 - Qualitative identification of Asbestos Fibres, Synthetic Mineral Fibres and Organic Fibres in bulk samples (including building materials and soils) using Polarised Light Microscopy and Dispersion Staining Techniques. Our NATA Accreditation does not currently cover the identification of Synthetic Mineral Fibres and Organic Fibres, however, according to new NATA requirements, the reporting of these fibres is compulsory if detected.
AN002	Preparation of soils, sediments and sludges undergo analysis by either air drying, compositing, subsampling and 1:5 soil water extraction where required. Moisture content is determined by drying the sample at 105 ± 5°C.

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QUALITY CONTROL BTEX in Soil	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (BTEX)				09/02/11	SE85223-2	9/02/2011 || 9/02/2011	SE85223-5	09/02/11
Date Analysed (BTEX)				09/02/11	SE85223-2	9/02/2011 || 9/02/2011	SE85223-5	09/02/11
Benzene	mg/kg	0.1	SEO-018	<0.1	SE85223-2	<0.1 || <0.1	SE85223-5	79%
Toluene	mg/kg	0.1	SEO-018	<0.1	SE85223-2	<0.1 || <0.1	SE85223-5	81%
Ethylbenzene	mg/kg	0.1	SEO-018	<0.1	SE85223-2	<0.1 || <0.1	SE85223-5	82%
Total Xylenes	mg/kg	0.3	SEO-018	<0.3	SE85223-2	<0.3 || <0.3	SE85223-5	89%
BTEX Surrogate (%)	%	0	SEO-018	87	SE85223-2	81 || 75 || RPD: 8	SE85223-5	75%

QUALITY CONTROL TRH in soil with C6-C9 by P/T	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (TRH C6-C9 PT)				09/02/11	SE85223-2	9/02/2011 || 9/02/2011	SE85223-5	09/02/11
Date Analysed (TRH C6-C9 PT)				09/02/11	SE85223-2	9/02/2011 || 9/02/2011	SE85223-5	09/02/11
TRH C_6 - C_9 P&T	mg/kg	20	SEO-018	<20	SE85223-2	<20 || <20	SE85223-5	109%
Date Extracted (TRH C10-C36)				9/02/2011	SE85223-2	9/02/2011 || 9/02/2011	SE85223-5	9/02/2011
Date Analysed (TRH C10-C36)				9/02/2011	SE85223-2	9/02/2011 || 9/02/2011	SE85223-5	9/02/2011
TRH C_{10} - C_{14}	mg/kg	20	SEO-020	<20	SE85223-2	<20 || <20	SE85223-5	119%
TRH C_{15} - C_{28}	mg/kg	50	SEO-020	<50	SE85223-2	160 || 180 || RPD: 12	SE85223-5	108%
TRH C_{29} - C_{36}	mg/kg	50	SEO-020	<50	SE85223-2	180 || 170 || RPD: 6	SE85223-5	118%

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QUALITY CONTROL PAHs in Soil	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted				09/02/2011	SE85223-125	9/02/2011 || 9/02/2011	SE85223-9	09/02/2011
Date Analysed				09/02/2011	SE85223-125	9/02/2011 || 9/02/2011	SE85223-9	09/02/2011
Naphthalene	mg/kg	0.1	SEO-030	<0.10	SE85223-125	<0.10 || <0.10	SE85223-9	101%
Acenaphthylene	mg/kg	0.1	SEO-030	<0.10	SE85223-125	<0.10 || <0.10	SE85223-9	92%
Acenaphthene	mg/kg	0.1	SEO-030	<0.10	SE85223-125	<0.10 || <0.10	SE85223-9	104%
Fluorene	mg/kg	0.1	SEO-030	<0.10	SE85223-125	<0.10 || <0.10	[NR]	[NR]
Phenanthrene	mg/kg	0.1	SEO-030	<0.10	SE85223-125	<0.10 || <0.10	SE85223-9	99%
Anthracene	mg/kg	0.1	SEO-030	<0.10	SE85223-125	<0.10 || <0.10	SE85223-9	93%
Fluoranthene	mg/kg	0.1	SEO-030	<0.10	SE85223-125	<0.10 || <0.10	SE85223-9	108%
Pyrene	mg/kg	0.1	SEO-030	<0.10	SE85223-125	<0.10 || <0.10	SE85223-9	111%
Benzo[*a*]anthracene	mg/kg	0.1	SEO-030	<0.10	SE85223-125	<0.10 || <0.10	[NR]	[NR]
Chrysene	mg/kg	0.1	SEO-030	<0.10	SE85223-125	<0.10 || <0.10	[NR]	[NR]
Benzo[*b*]fluoranthene	mg/kg	0.1	SEO-030	<0.1	SE85223-125	<0.1 || <0.1	[NR]	[NR]
Benzo[*k*]fluoranthene	mg/kg	0.1	SEO-030	<0.10	SE85223-125	<0.10 || <0.10	[NR]	[NR]
Benzo[*a*]pyrene	mg/kg	0.1	SEO-030	<0.10	SE85223-125	<0.10 || <0.10	SE85223-9	92%
Indeno[*123-cd*]pyrene	mg/kg	0.1	SEO-030	<0.10	SE85223-125	<0.10 || <0.10	[NR]	[NR]
Dibenzo[*ah*]anthracene	mg/kg	0.1	SEO-030	<0.10	SE85223-125	<0.10 || <0.10	[NR]	[NR]
Benzo[*ghi*]perylene	mg/kg	0.1	SEO-030	<0.10	SE85223-125	<0.10 || <0.10	[NR]	[NR]
Total PAHs (sum)	mg/kg	1.6	SEO-030	<2	SE85223-125	<2 || <2	[NR]	[NR]
Nitrobenzene-d5	%	0	SEO-030	129	SE85223-125	111 || 111 || RPD: 0	SE85223-9	128%
2-Fluorobiphenyl	%	0	SEO-030	110	SE85223-125	105 || 105 || RPD: 0	SE85223-9	121%
p -Terphenyl-*d*14	%	0	SEO-030	97	SE85223-125	98 || 97 || RPD: 1	SE85223-9	104%

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QUALITY CONTROL Metals in Soil by ICP-OES	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (Metals)				9/02/2011	SE85223-2	9/02/2011 || 9/02/2011	SE85223-5	9/02/2011
Date Analysed (Metals)				9/02/2011	SE85223-2	9/02/2011 || 9/02/2011	SE85223-5	9/02/2011
Arsenic	mg/kg	3	SEM-010	<3	SE85223-2	20 || 15 || RPD: 29	SE85223-5	85%
Cadmium	mg/kg	0.3	SEM-010	<0.3	SE85223-2	0.5 || 0.4 || RPD: 22	SE85223-5	97%
Chromium	mg/kg	0.3	SEM-010	<0.3	SE85223-2	20 || 17 || RPD: 16	SE85223-5	82%
Copper	mg/kg	0.5	SEM-010	<0.5	SE85223-2	87 || 76 || RPD: 13	SE85223-5	94%
Lead	mg/kg	1	SEM-010	<1	SE85223-2	140 || 120 || RPD: 15	SE85223-5	100%
Nickel	mg/kg	0.5	SEM-010	<0.5	SE85223-2	6.8 || 6.3 || RPD: 8	SE85223-5	86%
Zinc	mg/kg	0.5	SEM-010	<0.5	SE85223-2	150 || 120 || RPD: 22	SE85223-5	93%

QUALITY CONTROL Mercury Cold Vapor/Hg Analyser	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (Mercury)				15/02/2011	SE85223-2	15/02/2011 || 15/02/2011	SE85223-5	15/02/2011
Date Analysed (Mercury)				15/02/2011	SE85223-2	15/02/2011 || 15/02/2011	SE85223-5	15/02/2011
Mercury	mg/kg	0.05	SEM-005	<0.05	SE85223-2	0.22 || 0.21 || RPD: 5	SE85223-5	108%

QUALITY CONTROL Asbestos ID in soil	UNITS	LOR	METHOD	Blank
Date Analysed				[NT]

QUALITY CONTROL BTEX in Water (µg/L)	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (BTEX)				08/02/11	[NT]	[NT]	LCS	08/02/11
Date Analysed (BTEX)				08/02/11	[NT]	[NT]	LCS	08/02/11
Benzene	µg/L	0.5	SEO-018	<0.5	[NT]	[NT]	LCS	96%
Toluene	µg/L	0.5	SEO-018	<0.5	[NT]	[NT]	LCS	96%
Ethylbenzene	µg/L	0.5	SEO-018	<0.5	[NT]	[NT]	LCS	99%
Total Xylenes	µg/L	1.5	SEO-018	<1.5	[NT]	[NT]	LCS	99%
Surrogate	%	0	SEO-018	115	[NT]	[NT]	LCS	70%

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QUALITY CONTROL TRH C6-C9 by P/T ONLY-in water	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (TRH C6-C9 PT)				08/02/11	[NT]	[NT]	LCS	08/02/11
Date Analysed (TRH C6-C9 PT)				08/02/11	[NT]	[NT]	LCS	08/02/11
TRH C_6 - C_9 P&T in µg/L	µg/L	40	SEO-018	<40	[NT]	[NT]	LCS	70%

QUALITY CONTROL Hold sample-**NO test** required	UNITS	LOR	METHOD	Blank
Sample on HOLD		[NT]		[NT]

QUALITY CONTROL Moisture	UNITS	LOR	METHOD	Blank
Date Analysed (moisture)				[NT]
Moisture	%	1	AN002	<1

QUALITY CONTROL BTEX in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (BTEX)		SE85223-31	9/02/2011 || 9/02/2011	SE85223-127	09/02/11
Date Analysed (BTEX)		SE85223-31	9/02/2011 || 9/02/2011	SE85223-127	09/02/11
Benzene	mg/kg	SE85223-31	<0.1 || <0.1	SE85223-127	85%
Toluene	mg/kg	SE85223-31	<0.1 || <0.1	SE85223-127	87%
Ethylbenzene	mg/kg	SE85223-31	<0.1 || <0.1	SE85223-127	86%
Total Xylenes	mg/kg	SE85223-31	<0.3 || <0.3	SE85223-127	88%
BTEX Surrogate (%)	%	SE85223-31	87 || 85 || RPD: 2	SE85223-127	82%

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QUALITY CONTROL TRH in soil with C6-C9 by P/T	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (TRH C6-C9 PT)		SE85223-31	9/02/2011 || 9/02/2011	SE85223-127	09/02/11
Date Analysed (TRH C6-C9 PT)		SE85223-31	9/02/2011 || 9/02/2011	SE85223-127	09/02/11
TRH C_6 - C_9 P&T	mg/kg	SE85223-31	<20 || <20	SE85223-127	99%
Date Extracted (TRH C10-C36)		SE85223-31	9/02/2011 || 9/02/2011	SE85223-127	9/02/2011
Date Analysed (TRH C10-C36)		SE85223-31	9/02/2011 || 9/02/2011	SE85223-127	9/02/2011
TRH C_{10} - C_{14}	mg/kg	SE85223-31	<20 || <20	SE85223-127	113%
TRH C_{15} - C_{28}	mg/kg	SE85223-31	98 || 120 || RPD: 20	SE85223-127	125%
TRH C_{29} - C_{36}	mg/kg	SE85223-31	83 || 94 || RPD: 12	SE85223-127	114%

QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted		SE85223-31	9/02/2011 || 9/02/2011	SE85223-69	09/02/2011
Date Analysed		SE85223-31	9/02/2011 || 9/02/2011	SE85223-69	09/02/2011
Naphthalene	mg/kg	SE85223-31	0.12 || 0.12 || RPD: 0	SE85223-69	99%
Acenaphthylene	mg/kg	SE85223-31	0.35 || 0.34 || RPD: 3	SE85223-69	90%
Acenaphthene	mg/kg	SE85223-31	<0.10 || <0.10	SE85223-69	102%
Fluorene	mg/kg	SE85223-31	0.12 || 0.13 || RPD: 8	[NR]	[NR]
Phenanthrene	mg/kg	SE85223-31	1.6 || 1.6 || RPD: 0	SE85223-69	103%
Anthracene	mg/kg	SE85223-31	0.57 || 0.56 || RPD: 2	SE85223-69	97%
Fluoranthene	mg/kg	SE85223-31	2.7 || 2.6 || RPD: 4	SE85223-69	93%
Pyrene	mg/kg	SE85223-31	2.7 || 2.7 || RPD: 0	SE85223-69	98%
Benzo[a]anthracene	mg/kg	SE85223-31	2.2 || 2.2 || RPD: 0	[NR]	[NR]

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QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Chrysene	mg/kg	SE85223-31	1.0 || 1.0 || RPD: 0	[NR]	[NR]
Benzo[*b*]fluoranthene	mg/kg	SE85223-31	2.3 || 2.3 || RPD: 0	[NR]	[NR]
Benzo[*k*]fluoranthene	mg/kg	SE85223-31	0.57 || 0.74 || RPD: 26	[NR]	[NR]
Benzo[*a*]pyrene	mg/kg	SE85223-31	1.6 || 1.6 || RPD: 0	SE85223-69	85%
Indeno[*123-cd*]pyrene	mg/kg	SE85223-31	0.88 || 0.87 || RPD: 1	[NR]	[NR]
Dibenzo[*ah*]anthracene	mg/kg	SE85223-31	0.21 || 0.21 || RPD: 0	[NR]	[NR]
Benzo[*ghi*]perylene	mg/kg	SE85223-31	1.0 || 1.0 || RPD: 0	[NR]	[NR]
Total PAHs (sum)	mg/kg	SE85223-31	<18.17 || <18.29	[NR]	[NR]
Nitrobenzene-d5	%	SE85223-31	116 || 117 || RPD: 1	SE85223-69	112%
2-Fluorobiphenyl	%	SE85223-31	111 || 112 || RPD: 1	SE85223-69	106%
p -Terphenyl-*d14*	%	SE85223-31	97 || 98 || RPD: 1	SE85223-69	98%

QUALITY CONTROL Metals in Soil by ICP-OES	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (Metals)		SE85223-31	9/02/2011 || 9/02/2011	SE85223-65	9/02/2011
Date Analysed (Metals)		SE85223-31	9/02/2011 || 9/02/2011	SE85223-65	9/02/2011
Arsenic	mg/kg	SE85223-31	8 || 10 || RPD: 22	SE85223-65	94%
Cadmium	mg/kg	SE85223-31	1.3 || 1.3 || RPD: 0	SE85223-65	82%
Chromium	mg/kg	SE85223-31	17 || 21 || RPD: 21	SE85223-65	99%
Copper	mg/kg	SE85223-31	310 || 360 || RPD: 15	SE85223-65	106%
Lead	mg/kg	SE85223-31	380 || 450 || RPD: 17	SE85223-65	100%
Nickel	mg/kg	SE85223-31	22 || 23 || RPD: 4	SE85223-65	94%

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QUALITY CONTROL Metals in Soil by ICP-OES	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Zinc	mg/kg	SE85223-31	510 || 600 || RPD: 16	SE85223-65	93%

QUALITY CONTROL Mercury Cold Vapor/Hg Analyser	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (Mercury)		SE85223-31	15/02/2011 || 15/02/2011	LCS	15/02/2011
Date Analysed (Mercury)		SE85223-31	15/02/2011 || 15/02/2011	LCS	15/02/2011
Mercury	mg/kg	SE85223-31	0.62 || 0.52 || RPD: 18	LCS	108%

QUALITY CONTROL BTEX in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date Extracted (BTEX)		SE85223-125	9/02/2011 || 9/02/2011
Date Analysed (BTEX)		SE85223-125	9/02/2011 || 9/02/2011
Benzene	mg/kg	SE85223-125	<0.1 || <0.1
Toluene	mg/kg	SE85223-125	<0.1 || <0.1
Ethylbenzene	mg/kg	SE85223-125	<0.1 || <0.1
Total Xylenes	mg/kg	SE85223-125	<0.3 || <0.3
BTEX Surrogate (%)	%	SE85223-125	101 || 124 || RPD: 20

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QUALITY CONTROL TRH in soil with C6-C9 by P/T	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (TRH C6-C9 PT)		SE85223-125	9/02/2011 || 9/02/2011	[NR]	[NR]
Date Analysed (TRH C6-C9 PT)		SE85223-125	9/02/2011 || 9/02/2011	[NR]	[NR]
TRH C_6 - C_9 P&T	mg/kg	SE85223-125	<20 || <20	[NR]	[NR]
Date Extracted (TRH C10-C36)		SE85223-125	9/02/2011 || 9/02/2011	SE85223-67	9/02/2011
Date Analysed (TRH C10-C36)		SE85223-125	9/02/2011 || 9/02/2011	SE85223-67	9/02/2011
TRH C_{10} - C_{14}	mg/kg	SE85223-125	<20 || <20	SE85223-67	120%
TRH C_{15} - C_{28}	mg/kg	SE85223-125	<50 || <50	SE85223-67	124%
TRH C_{29} - C_{36}	mg/kg	SE85223-125	<50 || <50	SE85223-67	111%

QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted		SE85223-65	9/02/2011 || 9/02/2011	SE85223-128	09/02/2011
Date Analysed		SE85223-65	9/02/2011 || 9/02/2011	SE85223-128	09/02/2011
Naphthalene	mg/kg	SE85223-65	<0.10 || <0.10	SE85223-128	100%
Acenaphthylene	mg/kg	SE85223-65	0.14 || 0.13 || RPD: 7	SE85223-128	87%
Acenaphthene	mg/kg	SE85223-65	<0.10 || <0.10	SE85223-128	104%
Fluorene	mg/kg	SE85223-65	<0.10 || <0.10	[NR]	[NR]
Phenanthrene	mg/kg	SE85223-65	0.84 || 0.79 || RPD: 6	SE85223-128	112%
Anthracene	mg/kg	SE85223-65	0.36 || 0.29 || RPD: 22	SE85223-128	99%
Fluoranthene	mg/kg	SE85223-65	1.5 || 1.5 || RPD: 0	SE85223-128	114%
Pyrene	mg/kg	SE85223-65	1.6 || 1.6 || RPD: 0	SE85223-128	120%
Benzo[a]anthracene	mg/kg	SE85223-65	1.4 || 1.3 || RPD: 7	[NR]	[NR]

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QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Chrysene	mg/kg	SE85223-65	0.78 || 0.76 || RPD: 3	[NR]	[NR]
Benzo[*b*]fluoranthene	mg/kg	SE85223-65	1.6 || 1.6 || RPD: 0	[NR]	[NR]
Benzo[*k*]fluoranthene	mg/kg	SE85223-65	0.63 || 0.58 || RPD: 8	[NR]	[NR]
Benzo[*a*]pyrene	mg/kg	SE85223-65	1.3 || 1.3 || RPD: 0	SE85223-128	100%
Indeno[*123-cd*]pyrene	mg/kg	SE85223-65	0.66 || 0.65 || RPD: 2	[NR]	[NR]
Dibenzo[*ah*]anthracene	mg/kg	SE85223-65	0.15 || 0.16 || RPD: 6	[NR]	[NR]
Benzo[*ghi*]perylene	mg/kg	SE85223-65	0.87 || 0.87 || RPD: 0	[NR]	[NR]
Total PAHs (sum)	mg/kg	SE85223-65	<12.23 || <11.85	[NR]	[NR]
Nitrobenzene-d5	%	SE85223-65	116 || 110 || RPD: 5	SE85223-128	116%
2-Fluorobiphenyl	%	SE85223-65	107 || 101 || RPD: 6	SE85223-128	104%
p -Terphenyl-*d14*	%	SE85223-65	98 || 94 || RPD: 4	SE85223-128	98%

QUALITY CONTROL Metals in Soil by ICP-OES	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (Metals)		SE85223-63	9/02/2011 || 9/02/2011	SE85223-127	9/02/2011
Date Analysed (Metals)		SE85223-63	9/02/2011 || 9/02/2011	SE85223-127	9/02/2011
Arsenic	mg/kg	SE85223-63	9 || 8 || RPD: 12	SE85223-127	95%
Cadmium	mg/kg	SE85223-63	0.90 || 0.7 || RPD: 25	SE85223-127	89%
Chromium	mg/kg	SE85223-63	20 || 19 || RPD: 5	SE85223-127	100%
Copper	mg/kg	SE85223-63	98 || 110 || RPD: 12	SE85223-127	93%
Lead	mg/kg	SE85223-63	250 || 320 || RPD: 25	SE85223-127	100%
Nickel	mg/kg	SE85223-63	9.3 || 12 || RPD: 25	SE85223-127	97%

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QUALITY CONTROL Metals in Soil by ICP-OES	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Zinc	mg/kg	SE85223-63	220 || 270 || RPD: 20	SE85223-127	122%

QUALITY CONTROL Mercury Cold Vapor/Hg Analyser	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date Extracted (Mercury)		SE85223-63	15/02/2011 || 15/02/2011
Date Analysed (Mercury)		SE85223-63	15/02/2011 || 15/02/2011
Mercury	mg/kg	SE85223-63	0.29 || 0.27 || RPD: 7

QUALITY CONTROL BTEX in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (BTEX)		SE85223-102	9/02/2011 || 9/02/2011	SE85223-65	09/02/11
Date Analysed (BTEX)		SE85223-102	9/02/2011 || 9/02/2011	SE85223-65	09/02/11
Benzene	mg/kg	SE85223-102	<0.1 || <0.1	SE85223-65	76%
Toluene	mg/kg	SE85223-102	<0.1 || <0.1	SE85223-65	81%
Ethylbenzene	mg/kg	SE85223-102	<0.1 || <0.1	SE85223-65	84%
Total Xylenes	mg/kg	SE85223-102	<0.3 || <0.3	SE85223-65	93%
BTEX Surrogate (%)	%	SE85223-102	69 || 89 || RPD: 25	SE85223-65	72%

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QUALITY CONTROL TRH in soil with C6-C9 by P/T	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (TRH C6-C9 PT)		SE85223-102	9/02/2011 || 9/02/2011	SE85223-65	09/02/11
Date Analysed (TRH C6-C9 PT)		SE85223-102	9/02/2011 || 9/02/2011	SE85223-65	09/02/11
TRH C_6 - C_9 P&T	mg/kg	SE85223-102	<20 || <20	SE85223-65	92%
Date Extracted (TRH C10-C36)		SE85223-102	9/02/2011 || 9/02/2011	[NR]	[NR]
Date Analysed (TRH C10-C36)		SE85223-102	9/02/2011 || 9/02/2011	[NR]	[NR]
TRH C_{10} - C_{14}	mg/kg	SE85223-102	<20 || <20	[NR]	[NR]
TRH C_{15} - C_{28}	mg/kg	SE85223-102	<50 || <50	[NR]	[NR]
TRH C_{29} - C_{36}	mg/kg	SE85223-102	<50 || <50	[NR]	[NR]

QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date Extracted		SE85223-2	9/02/2011 || 9/02/2011
Date Analysed		SE85223-2	9/02/2011 || 9/02/2011
Naphthalene	mg/kg	SE85223-2	0.20 || 0.20 || RPD: 0
Acenaphthylene	mg/kg	SE85223-2	0.28 || 0.31 || RPD: 10
Acenaphthene	mg/kg	SE85223-2	0.19 || 0.19 || RPD: 0
Fluorene	mg/kg	SE85223-2	0.29 || 0.20 || RPD: 37
Phenanthrene	mg/kg	SE85223-2	2.6 || 2.7 || RPD: 4
Anthracene	mg/kg	SE85223-2	1.0 || 1.0 || RPD: 0
Fluoranthene	mg/kg	SE85223-2	5.2 || 5.1 || RPD: 2
Pyrene	mg/kg	SE85223-2	5.2 || 5.1 || RPD: 2
Benzo[*a*]anthracene	mg/kg	SE85223-2	4.0 || 4.2 || RPD: 5
Chrysene	mg/kg	SE85223-2	2.4 || 2.4 || RPD: 0
Benzo[*b*]fluoranthene	mg/kg	SE85223-2	6.5 || 4.4 || RPD: 39
Benzo[*k*]fluoranthene	mg/kg	SE85223-2	4.4 || 1.1 || RPD: 120
Benzo[*a*]pyrene	mg/kg	SE85223-2	3.1 || 3.1 || RPD: 0
Indeno[*123-cd*]pyrene	mg/kg	SE85223-2	1.9 || 1.9 || RPD: 0

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QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Dibenzo[*ah*]anthracene	mg/kg	SE85223-2	0.44 || 0.45 || RPD: 2
Benzo[*ghi*]perylene	mg/kg	SE85223-2	2.6 || 2.6 || RPD: 0
Total PAHs (sum)	mg/kg	SE85223-2	40 || 35 || RPD: 13
Nitrobenzene-d5	%	SE85223-2	128 || 129 || RPD: 1
2-Fluorobiphenyl	%	SE85223-2	115 || 118 || RPD: 3
p -Terphenyl-*d14*	%	SE85223-2	102 || 105 || RPD: 3

QUALITY CONTROL Metals in Soil by ICP-OES	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date Extracted (Metals)		SE85223-102	9/02/2011 || 9/02/2011
Date Analysed (Metals)		SE85223-102	9/02/2011 || 9/02/2011
Arsenic	mg/kg	SE85223-102	5 || 5 || RPD: 0
Cadmium	mg/kg	SE85223-102	<0.3 || <0.3
Chromium	mg/kg	SE85223-102	8.9 || 7.5 || RPD: 17
Copper	mg/kg	SE85223-102	34 || 32 || RPD: 6
Lead	mg/kg	SE85223-102	33 || 30 || RPD: 10
Nickel	mg/kg	SE85223-102	6.7 || 6.4 || RPD: 5
Zinc	mg/kg	SE85223-102	110 || 100 || RPD: 10

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QUALITY CONTROL Mercury Cold Vapor/Hg Analyser	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date Extracted (Mercury)		SE85223-102	15/02/2011 || 15/02/2011
Date Analysed (Mercury)		SE85223-102	15/02/2011 || 15/02/2011
Mercury	mg/kg	SE85223-102	0.06 || 0.05 || RPD: 18

QUALITY CONTROL TRH in soil with C6-C9 by P/T	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date Extracted (TRH C6-C9 PT)		SE85223-65	9/02/2011 || 9/02/2011
Date Analysed (TRH C6-C9 PT)		SE85223-65	9/02/2011 || 9/02/2011
TRH C_6 - C_9 P&T	mg/kg	SE85223-65	<20 || [N/T]
Date Extracted (TRH C10-C36)		SE85223-65	9/02/2011 || 9/02/2011
Date Analysed (TRH C10-C36)		SE85223-65	9/02/2011 || 9/02/2011
TRH C_{10} - C_{14}	mg/kg	SE85223-65	<20 || <20
TRH C_{15} - C_{28}	mg/kg	SE85223-65	<50 || <50
TRH C_{29} - C_{36}	mg/kg	SE85223-65	<50 || <50

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QUALITY CONTROL Metals in Soil by ICP-OES	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date Extracted (Metals)		SE85223-125	9/02/2011 || 9/02/2011
Date Analysed (Metals)		SE85223-125	9/02/2011 || 9/02/2011
Arsenic	mg/kg	SE85223-125	5 || 6 || RPD: 18
Cadmium	mg/kg	SE85223-125	<0.3 || <0.3
Chromium	mg/kg	SE85223-125	7.6 || 8.0 || RPD: 5
Copper	mg/kg	SE85223-125	14 || 13 || RPD: 7
Lead	mg/kg	SE85223-125	18 || 20 || RPD: 11
Nickel	mg/kg	SE85223-125	11 || 12 || RPD: 9
Zinc	mg/kg	SE85223-125	57 || 64 || RPD: 12

QUALITY CONTROL Hold sample-**NO test** required	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Sample on HOLD		[NT]	[NT]

QUALITY CONTROL TRH in soil with C6-C9 by P/T	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date Extracted (TRH C6-C9 PT)		SE85223-125	9/02/2011 || 9/02/2011
Date Analysed (TRH C6-C9 PT)		SE85223-125	9/02/2011 || 9/02/2011
TRH C_6 - C_9 P&T	mg/kg	SE85223-125	<20 || <20
Date Extracted (TRH C10-C36)		SE85223-125	9/02/2011 || 9/02/2011
Date Analysed (TRH C10-C36)		SE85223-125	9/02/2011 || 9/02/2011
TRH C_{10} - C_{14}	mg/kg	SE85223-125	<20 || <20
TRH C_{15} - C_{28}	mg/kg	SE85223-125	<50 || <50
TRH C_{29} - C_{36}	mg/kg	SE85223-125	<50 || <50

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QUALITY CONTROL BTEX in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date Extracted (BTEX)		SE85223-63	9/02/2011 || 9/02/2011
Date Analysed (BTEX)		SE85223-63	9/02/2011 || 9/02/2011
Benzene	mg/kg	SE85223-63	<0.1 || <0.1
Toluene	mg/kg	SE85223-63	<0.1 || <0.1
Ethylbenzene	mg/kg	SE85223-63	<0.1 || <0.1
Total Xylenes	mg/kg	SE85223-63	<0.3 || <0.3
BTEX Surrogate (%)	%	SE85223-63	89 || 73 || RPD: 20

QUALITY CONTROL TRH in soil with C6-C9 by P/T	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date Extracted (TRH C6-C9 PT)		SE85223-63	9/02/2011 || 9/02/2011
Date Analysed (TRH C6-C9 PT)		SE85223-63	9/02/2011 || 9/02/2011
TRH C_6 - C_9 P&T	mg/kg	SE85223-63	<20 || <20
Date Extracted (TRH C10-C36)		SE85223-63	9/02/2011 || 9/02/2011
Date Analysed (TRH C10-C36)		SE85223-63	9/02/2011 || 9/02/2011
TRH C_{10} - C_{14}	mg/kg	SE85223-63	<20 || [N/T]
TRH C_{15} - C_{28}	mg/kg	SE85223-63	<50 || [N/T]
TRH C_{29} - C_{36}	mg/kg	SE85223-63	<50 || [N/T]

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Result Codes

[INS] : Insufficient Sample for this test
[NR] : Not Requested
[NT] : Not tested
[LOR] : Limit of reporting
[RPD] : Relative Percentage Difference
* : Not part of NATA Accreditation
[N/A] : Not Applicable

Report Comments

Sampled by the client

Even after disintegration it can be very difficult, or impossible, to detect the presence of asbestos in some asbestos-containing bulk materials using polarised light microscopy.
This is due to the low grade or small length or diameter of asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials.

No respirable fibres detected using trace analysis technique.
Sample # 31,41,74 : 4 mm length fibre bundle hand picked and found loose in sample
Sample # 5,32,63,65,85,86,115 :1- 2 mm length fibre bundle hand picked and found loose in sample
Sample # 5,31,32,41,63,65,74,85,86,115 : <0.1g/kg

Asbestos analysed by Approved Identifier Ravee Sivasubramaniam.
Samples analysed as received. Solid samples expressed on a dry weight basis.
Date Organics extraction commenced:
NATA Corporate Accreditation No. 2562, Site No 4354
Note: Test results are not corrected for recovery (excluding Air-toxics and Dioxins/Furans*)
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Quality Control Protocol

Method Blank: An analyte free matrix to which all reagents are added in the same volume or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. A method blank is prepared every 20 samples.
Duplicate: A separate portion of a sample being analysed that is treated the same as the other samples in the batch. One duplicate is processed at least every 10 samples.
Surrogate Spike: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are added to samples before extraction to monitor extraction efficiency and percent recovery in each sample.
Internal Standard: Added to all samples requiring analysis for organics (where relevant) or metals by ICP after the extraction/digestion process; the compounds/elements serve to give a standard of retention time and/or response, which is invariant from run-to-run with the instruments.
Laboratory Control Sample: A known matrix spiked with compound(s) representative of the target analytes. It is used to document laboratory performance. When the results of the matrix spike analysis indicates a potential problem due to the sample matrix itself, the LCS results are used to verify that the laboratory can perform the analysis in a clean matrix.
Matrix Spike: An aliquot of sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

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Quality Acceptance Criteria

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: http://www.au.sgs.com/sgs-mp-au-env-qu-022-qa-qc-plan-en-09.pdf

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ANALYTICAL REPORT

21 February 2011

Coffey Environments Pty Ltd
Level 1, 3 Rider Boulevard
RHODES
NSW 2138

Attention: **Nalin De Silva**

Your Reference: ENAURHOD04108AA - Additional Analysis

Our Reference: SE85223B

Samples: 7 Soils
Received: 4/02/2011

Preliminary Report Sent: Not Issued

These samples were analysed in accordance with your written instructions.

For and on Behalf of:
SGS ENVIRONMENTAL SERVICES

Sample Receipt:	Angela Mamalicos	AU.SampleReceipt.Sydney@sgs.com
Production Manager:	Huong Crawford	Huong.Crawford@sgs.com

Results Approved and/or Authorised by:

Ly Kim Ha
Organics Signatory

Huong Crawford
Metals Signatory

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PAHs in TCLP (USEPA 1311) Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ---------- ----------	SE85223B-15 R20 0.9-1.0 Soil 3/02/2011	SE85223B-23 R16 2.9-3.0 Soil 3/02/2011	SE85223B-50 R28 0.4-0.5 Soil 3/02/2011	SE85223B-67 R30 0.0-0.1 Soil 4/02/2011
Date Extracted (TCLP Preparation)		18/02/2011	18/02/2011	18/02/2011	18/02/2011
pH of soil for fluid# determ.	pH units	9.13	7.18	7.70	7.91
Extraction fluid used	-	1	1	1	1
pH of soil for fluid # determ. (acid)	pH units	1.71	1.65	1.66	1.64
pH of final Leachate	pH units	5.41	5.25	5.81	5.42
Date Extracted		18/02/2011	18/02/2011	18/02/2011	18/02/2011
Date Analysed		18/02/2011	18/02/2011	18/02/2011	18/02/2011
Benzo[a]pyrene	µg/L	<0.50	<0.50	<0.50	<0.50
Nitrobenzene-d5	%	70	123	77	76
2-Fluorobiphenyl	%	62	112	65	65
p -Terphenyl-*d14*	%	88	128	115	72

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Metals in TCLP Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ----------	SE85223B-23 R16 2.9-3.0 Soil 3/02/2011	SE85223B-46 R38 1.9-2.0 Soil 3/02/2011	SE85223B-85 I3 5.4-5.5 Soil 4/02/2011	SE85223B-127 BHD2 8.0-8.1 Soil 4/02/2011
Date Extracted (TCLP Preparation)		[NA]	18/02/2011	18/02/2011	18/02/2011
pH of soil for fluid# determ.	pH units	[NA]	8.70	8.81	6.20
pH of soil for fluid # determ. (acid)	pH units	[NA]	4.62	1.59	1.56
Extraction fluid used	-	[NA]	1	1	1
pH of final Leachate	pH units	[NA]	6.42	6.01	5.16
Date Extracted (Metals)		21/02/2011	21/02/2011	21/02/2011	21/02/2011
Date Analysed (Metals)		21/02/2011	21/02/2011	21/02/2011	21/02/2011
Lead	mg/L	1.6	0.55	0.64	0.11

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Method ID	Methodology Summary
AN006	Toxicity Characteristic Leaching Procedure (TCLP) - Preparation of leachates for assessing the mobility of both organic and inorganic contaminants present in liquid, solid, and multiphase wastes. Based on USEPA 1311. For volatile analytes, Zero-Headspace Extraction Vessel (ZHE) is used. This method also meets the requirements of Australian Standard Leaching Procedure (ASLP) AS 4439.3-1997 Part 3.
AN101	pH - Measured using pH meter and electrode based on APHA 21st Edition, 4500-H+. For water analyses the results reported are indicative only as the sample holding time requirement specified in APHA was not met (APHA requires that the pH of the samples are to be measured within 15 minutes after sampling).
SEO-030	Polynuclear Aromatic Hydrocarbons - determined by solvent extraction with dichloromethane / acetone for soils and dichloromethane for waters, followed by instrumentation analysis using GC/MS SIM mode. Total PAH is the sum of all positive PAH(s) assuming non-quantifiable PAH(s) (<LOR) do not contribute to the total. LOR for Total PAH is based on 50% of the sum of 16 PAH LORs.
SEM-010	Determination of elements by ICP-OES following appropriate sample preparation / digestion process. Based on USEPA 6010C / APHA 21st Edition, 3120B.

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QUALITY CONTROL PAHs in TCLP (USEPA 1311)	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
pH of soil for fluid# determ.	pH units	0	AN101	[NT]	[NT]	[NT]	[NR]	[NR]
Extraction fluid used	-		AN006	1	[NT]	[NT]	[NR]	[NR]
pH of soil for fluid # determ. (acid)	pH units	0	AN101	[NT]	[NT]	[NT]	[NR]	[NR]
pH of final Leachate	pH units	0	AN101	4.93	[NT]	[NT]	[NR]	[NR]
Date Extracted				18/02/2011	[NT]	[NT]	LCS	18/02/2011
Date Analysed				18/02/2011	[NT]	[NT]	LCS	18/02/2011
Benzo[a]pyrene	µg/L	0.5	SEO-030	<0.50	[NT]	[NT]	LCS	100%
Nitrobenzene-d5	%	0	SEO-030	92	[NT]	[NT]	LCS	107%
2-Fluorobiphenyl	%	0	SEO-030	124	[NT]	[NT]	LCS	98%
p -Terphenyl-*d* 14	%	0	SEO-030	122	[NT]	[NT]	LCS	95%

QUALITY CONTROL Metals in TCLP	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
pH of soil for fluid# determ.	pH units	0	AN101	[NT]	[NT]	[NT]	[NR]	[NR]
pH of soil for fluid # determ. (acid)	pH units	0	AN101	[NT]	[NT]	[NT]	[NR]	[NR]
Extraction fluid used	-		AN006	1	[NT]	[NT]	[NR]	[NR]
pH of final Leachate	pH units	0	AN101	4.93	[NT]	[NT]	[NR]	[NR]
Date Extracted (Metals)				21/02/2011	[NT]	[NT]	LCS	21/02/2011
Date Analysed (Metals)				21/02/2011	[NT]	[NT]	LCS	21/02/2011
Lead	mg/L	0.02	SEM-010	<0.02	[NT]	[NT]	LCS	97%

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Result Codes

[INS] : Insufficient Sample for this test
[NR] : Not Requested
[NT] : Not tested
[LOR] : Limit of reporting
[RPD] : Relative Percentage Difference
* : Not part of NATA Accreditation
[N/A] : Not Applicable

Report Comments

Samples analysed as received. Solid samples expressed on a dry weight basis.
Date Organics extraction commenced:
NATA Corporate Accreditation No. 2562, Site No 4354
Note: Test results are not corrected for recovery (excluding Air-toxics and Dioxins/Furans*)
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Duplicate: A separate portion of a sample being analysed that is treated the same as the other samples in the batch. One duplicate is processed at least every 10 samples.
Surrogate Spike: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are added to samples before extraction to monitor extraction efficiency and percent recovery in each sample.
Internal Standard: Added to all samples requiring analysis for organics (where relevant) or metals by ICP after the extraction/digestion process; the compounds/elements serve to give a standard of retention time and/or response, which is invariant from run-to-run with the instruments.
Laboratory Control Sample: A known matrix spiked with compound(s) representative of the target analytes. It is used to document laboratory performance. When the results of the matrix spike analysis indicates a potential problem due to the sample matrix itself, the LCS results are used to verify that the laboratory can perform the analysis in a clean matrix.
Matrix Spike: An aliquot of sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Quality Acceptance Criteria

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: http://www.au.sgs.com/sgs-mp-au-env-qu-022-qa-qc-plan-en-09.pdf

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ANALYTICAL REPORT

16 February 2011

Coffey Environments Pty Ltd
Level 1, 3 Rider Boulevard
RHODES
NSW 2138

Attention: **Nalin De Silva**

Your Reference: ENAURHOD04108AA

Our Reference: SE85229

Samples: 68 Soils, 2 Waters
Received: 4/02/2011

Preliminary Report Sent: 11/02/11

These samples were analysed in accordance with your written instructions.

For and on Behalf of:
SGS ENVIRONMENTAL SERVICES

Sample Receipt:	Angela Mamalicos	AU.SampleReceipt.Sydney@sgs.com
Production Manager:	Huong Crawford	Huong.Crawford@sgs.com

Results Approved and/or Authorised by:

Dong Liang
Quality Manager

Ravee Sivasubramaniam
Asbestos Signatory

Ly Kim Ha
Organics Signatory
Organics Signatory

Huong Crawford
Metals Signatory

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BTEX in Soil Our Reference:	UNITS	SE85229-3	SE85229-4	SE85229-8	SE85229-9	SE85229-10
Your Reference	----------	R21-0.4	R21-1.0	R23-0.6	R23-1.0	R23-1.5
Location	----------	R21	R21	R23	R23	R23
Depth		0.4	1.0	0.6	1.0	1.5
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Date Sampled		3/02/2011	3/02/2011	3/02/2011	3/02/2011	3/02/2011
Date Extracted (BTEX)		10/02/2011	10/02/2011	10/02/2011	10/02/2011	10/02/2011
Date Analysed (BTEX)		12/02/2011	12/02/2011	12/02/2011	12/02/2011	12/02/2011
Benzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
BTEX Surrogate (%)	%	73	79	84	85	84

BTEX in Soil Our Reference:	UNITS	SE85229-14	SE85229-16	SE85229-17	SE85229-20	SE85229-23
Your Reference	----------	R25-1.0	R25-2.0	R27-0.3	R27-1.6	R32-0.5
Location	----------	R25	R25	R27	R27	R32
Depth		1.0	2.0	0.3	1.6	0.5
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Date Sampled		3/02/2011	3/02/2011	3/02/2011	3/02/2011	3/02/2011
Date Extracted (BTEX)		10/02/2011	10/02/2011	10/02/2011	10/02/2011	10/02/2011
Date Analysed (BTEX)		12/02/2011	12/02/2011	12/02/2011	12/02/2011	12/02/2011
Benzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
BTEX Surrogate (%)	%	76	91	86	114	82

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BTEX in Soil Our Reference: Your Reference Location Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85229-26 R32-2.0 R32 2.0 Soil 3/02/2011	SE85229-27 QC1 - - Soil 3/02/2011	SE85229-29 QC2 - - Soil 3/02/2011	SE85229-32 QC4 - - Soil 3/02/2011	SE85229-35 R22-1.0 R22 1.0 Soil 4/02/2011
Date Extracted (BTEX)		10/02/2011	10/02/2011	10/02/2011	10/02/2011	10/02/2011
Date Analysed (BTEX)		12/02/2011	12/02/2011	12/02/2011	12/02/2011	12/02/2011
Benzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
BTEX Surrogate (%)	%	79	79	98	80	79

BTEX in Soil Our Reference: Your Reference Location Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85229-39 R24-0.5 R24 0.5 Soil 4/02/2011	SE85229-44 R26-0.5 R26 0.5 Soil 4/02/2011	SE85229-50 R34A-1.0 R34A 1.0 Soil 4/02/2011	SE85229-54 R31-0.5 R31 0.5 Soil 4/02/2011	SE85229-61 R33-1.5 R33 1.5 Soil 4/02/2011
Date Extracted (BTEX)		10/02/2011	10/02/2011	10/02/2011	10/02/2011	10/02/2011
Date Analysed (BTEX)		12/02/2011	12/02/2011	12/02/2011	12/02/2011	12/02/2011
Benzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
BTEX Surrogate (%)	%	78	91	76	114	105

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TRH in soil with C6-C9 by P/T Our Reference: Your Reference Location Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85229-3 R21-0.4 R21 0.4 Soil 3/02/2011	SE85229-4 R21-1.0 R21 1.0 Soil 3/02/2011	SE85229-8 R23-0.6 R23 0.6 Soil 3/02/2011	SE85229-9 R23-1.0 R23 1.0 Soil 3/02/2011	SE85229-10 R23-1.5 R23 1.5 Soil 3/02/2011
Date Extracted (TRH C6-C9 PT)		10/02/2011	10/02/2011	10/02/2011	10/02/2011	10/02/2011
Date Analysed (TRH C6-C9 PT)		12/02/2011	12/02/2011	12/02/2011	12/02/2011	12/02/2011
TRH C_6 - C_9 P&T	mg/kg	<20	<20	<20	<20	<20
Date Extracted (TRH C10-C36)		10/02/2011	10/02/2011	10/02/2011	10/02/2011	10/02/2011
Date Analysed (TRH C10-C36)		10/02/2011	10/02/2011	10/02/2011	10/02/2011	10/02/2011
TRH C_{10} - C_{14}	mg/kg	<20	<20	<20	<20	<20
TRH C_{15} - C_{28}	mg/kg	<50	<50	73	<50	110
TRH C_{29} - C_{36}	mg/kg	<50	<50	70	<50	<50

TRH in soil with C6-C9 by P/T Our Reference: Your Reference Location Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85229-14 R25-1.0 R25 1.0 Soil 3/02/2011	SE85229-16 R25-2.0 R25 2.0 Soil 3/02/2011	SE85229-17 R27-0.3 R27 0.3 Soil 3/02/2011	SE85229-20 R27-1.6 R27 1.6 Soil 3/02/2011	SE85229-23 R32-0.5 R32 0.5 Soil 3/02/2011
Date Extracted (TRH C6-C9 PT)		10/02/2011	10/02/2011	10/02/2011	10/02/2011	10/02/2011
Date Analysed (TRH C6-C9 PT)		12/02/2011	12/02/2011	12/02/2011	12/02/2011	12/02/2011
TRH C_6 - C_9 P&T	mg/kg	<20	<20	<20	<20	<20
Date Extracted (TRH C10-C36)		10/02/2011	10/02/2011	10/02/2011	10/02/2011	10/02/2011
Date Analysed (TRH C10-C36)		10/02/2011	10/02/2011	10/02/2011	10/02/2011	10/02/2011
TRH C_{10} - C_{14}	mg/kg	<20	<20	<20	<20	<20
TRH C_{15} - C_{28}	mg/kg	110	160	300	<50	240
TRH C_{29} - C_{36}	mg/kg	<50	83	130	<50	130

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TRH in soil with C6-C9 by P/T						
Our Reference:	UNITS	SE85229-26	SE85229-27	SE85229-29	SE85229-32	SE85229-35
Your Reference	----------	R32-2.0	QC1	QC2	QC4	R22-1.0
Location	----------	R32	-	-	-	R22
Depth		2.0	-	-	-	1.0
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Date Sampled		3/02/2011	3/02/2011	3/02/2011	3/02/2011	4/02/2011
Date Extracted (TRH C6-C9 PT)		10/02/2011	10/02/2011	10/02/2011	10/02/2011	10/02/2011
Date Analysed (TRH C6-C9 PT)		12/02/2011	12/02/2011	12/02/2011	12/02/2011	12/02/2011
TRH C_6 - C_9 P&T	mg/kg	<20	<20	<20	<20	<20
Date Extracted (TRH C10-C36)		10/02/2011	10/02/2011	10/02/2011	10/02/2011	10/02/2011
Date Analysed (TRH C10-C36)		10/02/2011	10/02/2011	10/02/2011	10/02/2011	10/02/2011
TRH C_{10} - C_{14}	mg/kg	<20	<20	<20	<20	<20
TRH C_{15} - C_{28}	mg/kg	210	<50	64	140	<50
TRH C_{29} - C_{36}	mg/kg	220	<50	<50	180	<50

TRH in soil with C6-C9 by P/T						
Our Reference:	UNITS	SE85229-39	SE85229-44	SE85229-50	SE85229-54	SE85229-61
Your Reference	----------	R24-0.5	R26-0.5	R34A-1.0	R31-0.5	R33-1.5
Location	----------	R24	R26	R34A	R31	R33
Depth		0.5	0.5	1.0	0.5	1.5
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Date Sampled		4/02/2011	4/02/2011	4/02/2011	4/02/2011	4/02/2011
Date Extracted (TRH C6-C9 PT)		10/02/2011	10/02/2011	10/02/2011	10/02/2011	10/02/2011
Date Analysed (TRH C6-C9 PT)		12/02/2011	12/02/2011	12/02/2011	12/02/2011	12/02/2011
TRH C_6 - C_9 P&T	mg/kg	<20	<20	<20	<20	<20
Date Extracted (TRH C10-C36)		10/02/2011	10/02/2011	10/02/2011	10/02/2011	10/02/2011
Date Analysed (TRH C10-C36)		10/02/2011	10/02/2011	10/02/2011	10/02/2011	10/02/2011
TRH C_{10} - C_{14}	mg/kg	<20	<20	<20	<20	<20
TRH C_{15} - C_{28}	mg/kg	85	75	340	130	<50
TRH C_{29} - C_{36}	mg/kg	<50	<50	93	64	<50

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PAHs in Soil Our Reference:	UNITS	SE85229-3	SE85229-4	SE85229-8	SE85229-9	SE85229-14
Your Reference	----------	R21-0.4	R21-1.0	R23-0.6	R23-1.0	R25-1.0
Location	----------	R21	R21	R23	R23	R25
Depth		0.4	1.0	0.6	1.0	1.0
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Date Sampled		3/02/2011	3/02/2011	3/02/2011	3/02/2011	3/02/2011
Date Extracted		10/02/2011	10/02/2011	10/02/2011	10/02/2011	10/02/2011
Date Analysed		10/02/2011	10/02/2011	10/02/2011	10/02/2011	10/02/2011
Naphthalene	mg/kg	<0.10	<0.10	<0.10	<0.10	0.15
Acenaphthylene	mg/kg	<0.10	<0.10	0.23	0.22	0.56
Acenaphthene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Fluorene	mg/kg	<0.10	<0.10	<0.10	<0.10	0.16
Phenanthrene	mg/kg	<0.10	<0.10	0.91	0.84	2.7
Anthracene	mg/kg	<0.10	<0.10	0.41	0.38	1.1
Fluoranthene	mg/kg	<0.10	<0.10	1.9	2.1	4.5
Pyrene	mg/kg	<0.10	<0.10	1.9	2.1	4.4
Benzo[*a*]anthracene	mg/kg	<0.10	<0.10	1.4	1.7	3.2
Chrysene	mg/kg	<0.10	<0.10	0.71	0.80	1.8
Benzo[*b*]fluoranthene	mg/kg	<0.1	<0.1	1.8	2.1	3.6
Benzo[*k*]fluoranthene	mg/kg	<0.10	<0.10	0.54	0.65	1.1
Benzo[*a*]pyrene	mg/kg	<0.10	<0.10	1.1	1.3	2.4
Indeno[*123-cd*]pyrene	mg/kg	<0.10	<0.10	0.50	0.57	1.1
Dibenzo[*ah*]anthracene	mg/kg	<0.10	<0.10	0.10	0.17	0.34
Benzo[*ghi*]perylene	mg/kg	<0.10	<0.10	0.56	0.64	1.2
Total PAHs (sum)	mg/kg	<2	<2	<12.37	<13.73	<28.35
Nitrobenzene-d5	%	116	95	106	108	107
2-Fluorobiphenyl	%	100	89	100	102	109
p -Terphenyl-*d14*	%	100	110	98	96	104

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PAHs in Soil Our Reference:	UNITS	SE85229-16	SE85229-17	SE85229-20	SE85229-23	SE85229-26
Your Reference	----------	R25-2.0	R27-0.3	R27-1.6	R32-0.5	R32-2.0
Location	----------	R25	R27	R27	R32	R32
Depth		2.0	0.3	1.6	0.5	2.0
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Date Sampled		3/02/2011	3/02/2011	3/02/2011	3/02/2011	3/02/2011
Date Extracted		10/02/2011	10/02/2011	10/02/2011	10/02/2011	10/02/2011
Date Analysed		10/02/2011	10/02/2011	10/02/2011	10/02/2011	10/02/2011
Naphthalene	mg/kg	<0.10	0.19	<0.10	0.41	<0.10
Acenaphthylene	mg/kg	0.18	0.43	<0.10	0.55	0.32
Acenaphthene	mg/kg	<0.10	0.19	<0.10	<0.10	<0.10
Fluorene	mg/kg	<0.10	0.29	<0.10	<0.10	0.25
Phenanthrene	mg/kg	2.6	12	0.21	2.2	2.4
Anthracene	mg/kg	1.1	3.2	<0.10	1.1	1.3
Fluoranthene	mg/kg	6.0	12	0.78	5.8	5.7
Pyrene	mg/kg	5.7	11	0.97	6.2	5.5
Benzo[*a*]anthracene	mg/kg	3.8	7.7	0.91	4.8	4.5
Chrysene	mg/kg	2.1	3.8	0.46	2.5	2.2
Benzo[*b*]fluoranthene	mg/kg	4.1	7.5	1.0	5.6	6.6
Benzo[*k*]fluoranthene	mg/kg	1.2	2.0	0.37	1.4	3.8
Benzo[*a*]pyrene	mg/kg	2.5	4.7	0.84	3.4	2.7
Indeno[*123-cd*]pyrene	mg/kg	1.1	2.4	0.39	1.9	1.4
Dibenzo[*ah*]anthracene	mg/kg	0.33	0.54	<0.10	0.46	0.36
Benzo[*ghi*]perylene	mg/kg	1.3	2.8	0.48	2.3	1.6
Total PAHs (sum)	mg/kg	<32.38	71	<7.04	<38.81	<38.84
Nitrobenzene-d5	%	81	103	73	99	87
2-Fluorobiphenyl	%	98	108	80	101	96
p -Terphenyl-*d14*	%	102	104	94	97	100

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PAHs in Soil Our Reference: Your Reference Location Depth Sample Matrix Date Sampled	UNITS --- --- 	SE85229-27 QC1 - - Soil 3/02/2011	SE85229-29 QC2 - - Soil 3/02/2011	SE85229-32 QC4 - - Soil 3/02/2011	SE85229-35 R22-1.0 R22 1.0 Soil 4/02/2011	SE85229-39 R24-0.5 R24 0.5 Soil 4/02/2011
Date Extracted		10/02/2011	10/02/2011	10/02/2011	10/02/2011	10/02/2011
Date Analysed		10/02/2011	10/02/2011	10/02/2011	10/02/2011	10/02/2011
Naphthalene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Acenaphthylene	mg/kg	<0.10	0.16	0.17	0.11	0.45
Acenaphthene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Fluorene	mg/kg	<0.10	<0.10	0.13	<0.10	0.39
Phenanthrene	mg/kg	<0.10	0.63	1.1	0.55	2.7
Anthracene	mg/kg	<0.10	0.30	0.62	0.21	0.94
Fluoranthene	mg/kg	<0.10	1.5	2.9	1.1	3.5
Pyrene	mg/kg	<0.10	1.6	2.6	1.1	3.4
Benzo[*a*]anthracene	mg/kg	<0.10	1.1	2.3	0.77	2.4
Chrysene	mg/kg	<0.10	0.62	1.1	0.48	1.1
Benzo[*b*]fluoranthene	mg/kg	<0.1	1.4	4.3	0.9	2.2
Benzo[*k*]fluoranthene	mg/kg	<0.10	0.44	2.5	0.23	0.83
Benzo[*a*]pyrene	mg/kg	<0.10	0.91	1.6	0.57	1.6
Indeno[*123-cd*]pyrene	mg/kg	<0.10	0.45	0.95	0.26	0.66
Dibenzo[*ah*]anthracene	mg/kg	<0.10	<0.10	0.30	<0.10	0.21
Benzo[*ghi*]perylene	mg/kg	<0.10	0.53	1.1	0.29	0.77
Total PAHs (sum)	mg/kg	<2	<10.05	<21.89	<7.03	<21.38
Nitrobenzene-d5	%	85	95	111	95	95
2-Fluorobiphenyl	%	90	92	111	96	102
p -Terphenyl-*d14*	%	95	95	103	94	99

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PAHs in Soil Our Reference: Your Reference Location Depth Sample Matrix Date Sampled	UNITS --- ---	SE85229-41 R24-1.5 R24 1.5 Soil 4/02/2011	SE85229-44 R26-0.5 R26 0.5 Soil 4/02/2011	SE85229-50 R34A-1.0 R34A 1.0 Soil 4/02/2011	SE85229-54 R31-0.5 R31 0.5 Soil 4/02/2011	SE85229-61 R33-1.5 R33 1.5 Soil 4/02/2011
Date Extracted		10/02/2011	10/02/2011	10/02/2011	10/02/2011	10/02/2011
Date Analysed		10/02/2011	10/02/2011	10/02/2011	10/02/2011	10/02/2011
Naphthalene	mg/kg	0.14	0.13	1.1	0.21	<0.10
Acenaphthylene	mg/kg	0.48	0.34	3.3	0.50	<0.10
Acenaphthene	mg/kg	<0.10	<0.10	0.44	<0.10	<0.10
Fluorene	mg/kg	0.18	<0.10	2.4	0.13	<0.10
Phenanthrene	mg/kg	2.4	1.3	19	2.6	<0.10
Anthracene	mg/kg	0.96	0.59	3.8	1.0	<0.10
Fluoranthene	mg/kg	4.0	2.8	13	4.9	0.26
Pyrene	mg/kg	3.9	3.0	11	5.0	0.35
Benzo[*a*]anthracene	mg/kg	3.1	2.5	7.7	3.9	0.38
Chrysene	mg/kg	1.3	1.1	3.8	2.1	0.25
Benzo[*b*]fluoranthene	mg/kg	3.1	2.7	7.3	4.2	0.5
Benzo[*k*]fluoranthene	mg/kg	0.83	0.94	1.9	1.2	0.20
Benzo[*a*]pyrene	mg/kg	2.1	1.8	4.4	2.8	0.34
Indeno[*123-cd*]pyrene	mg/kg	0.98	0.86	1.9	1.2	0.19
Dibenzo[*ah*]anthracene	mg/kg	0.31	0.20	0.53	0.32	<0.10
Benzo[*ghi*]perylene	mg/kg	1.1	1.0	1.9	1.4	0.22
Total PAHs (sum)	mg/kg	<25.15	<19.56	84	<31.79	<3.42
Nitrobenzene-d5	%	99	92	92	95	76
2-Fluorobiphenyl	%	103	98	106	98	83
p -Terphenyl-*d14*	%	100	100	101	100	97

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Metals in Soil by ICP-OES Our Reference: Your Reference Location Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85229-3 R21-0.4 R21 0.4 Soil 3/02/2011	SE85229-4 R21-1.0 R21 1.0 Soil 3/02/2011	SE85229-5 R21-1.5 R21 1.5 Soil 3/02/2011	SE85229-8 R23-0.6 R23 0.6 Soil 3/02/2011	SE85229-9 R23-1.0 R23 1.0 Soil 3/02/2011
Date Extracted (Metals)		10/02/2011	10/02/2011	10/02/2011	10/02/2011	10/02/2011
Date Analysed (Metals)		10/02/2011	10/02/2011	10/02/2011	10/02/2011	10/02/2011
Arsenic	mg/kg	14	13	22	7	13
Cadmium	mg/kg	3.9	2.3	4.1	1.3	0.7
Chromium	mg/kg	55	56	130	13	9.5
Copper	mg/kg	1,500	4,400	350	370	1,500
Lead	mg/kg	6,300	1,400	380	330	320
Nickel	mg/kg	50	52	200	24	21
Zinc	mg/kg	2,100	1,700	810	500	340

Metals in Soil by ICP-OES Our Reference: Your Reference Location Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85229-14 R25-1.0 R25 1.0 Soil 3/02/2011	SE85229-16 R25-2.0 R25 2.0 Soil 3/02/2011	SE85229-17 R27-0.3 R27 0.3 Soil 3/02/2011	SE85229-20 R27-1.6 R27 1.6 Soil 3/02/2011	SE85229-23 R32-0.5 R32 0.5 Soil 3/02/2011
Date Extracted (Metals)		10/02/2011	10/02/2011	10/02/2011	10/02/2011	10/02/2011
Date Analysed (Metals)		10/02/2011	10/02/2011	10/02/2011	10/02/2011	10/02/2011
Arsenic	mg/kg	6	5	6	3	4
Cadmium	mg/kg	0.9	<0.3	4.3	2.1	0.5
Chromium	mg/kg	11	6.8	18	7.5	8.0
Copper	mg/kg	140	130	130	30	120
Lead	mg/kg	340	1,100	300	430	1,100
Nickel	mg/kg	13	3.9	45	8.1	7.4
Zinc	mg/kg	400	210	560	340	340

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Metals in Soil by ICP-OES Our Reference: Your Reference Location Depth Sample Matrix Date Sampled	UNITS ---------- ---------- 	SE85229-26 R32-2.0 R32 2.0 Soil 3/02/2011	SE85229-27 QC1 - - Soil 3/02/2011	SE85229-29 QC2 - - Soil 3/02/2011	SE85229-32 QC4 - - Soil 3/02/2011	SE85229-35 R22-1.0 R22 1.0 Soil 4/02/2011
Date Extracted (Metals)		10/02/2011	11/02/2011	10/02/2011	10/02/2011	10/02/2011
Date Analysed (Metals)		10/02/2011	11/02/2011	10/02/2011	10/02/2011	10/02/2011
Arsenic	mg/kg	8	12	8	3	25
Cadmium	mg/kg	0.8	2.1	1.5	0.5	0.8
Chromium	mg/kg	27	30	12	7.4	9.0
Copper	mg/kg	190	940	870	140	110
Lead	mg/kg	210	1,300	520	370	190
Nickel	mg/kg	36	60	22	11	14
Zinc	mg/kg	190	1,600	460	330	270

Metals in Soil by ICP-OES Our Reference: Your Reference Location Depth Sample Matrix Date Sampled	UNITS ---------- ---------- 	SE85229-39 R24-0.5 R24 0.5 Soil 4/02/2011	SE85229-41 R24-1.5 R24 1.5 Soil 4/02/2011	SE85229-44 R26-0.5 R26 0.5 Soil 4/02/2011	SE85229-50 R34A-1.0 R34A 1.0 Soil 4/02/2011	SE85229-54 R31-0.5 R31 0.5 Soil 4/02/2011
Date Extracted (Metals)		10/02/2011	10/02/2011	10/02/2011	10/02/2011	10/02/2011
Date Analysed (Metals)		10/02/2011	10/02/2011	10/02/2011	10/02/2011	10/02/2011
Arsenic	mg/kg	5	9	7	9	6
Cadmium	mg/kg	1.3	0.6	1.2	1.2	0.9
Chromium	mg/kg	17	9.8	11	10	13
Copper	mg/kg	150	110	120	90	150
Lead	mg/kg	250	310	410	590	430
Nickel	mg/kg	51	11	15	10	14
Zinc	mg/kg	310	280	400	280	410

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Metals in Soil by ICP-OES		
Our Reference:	UNITS	SE85229-61
Your Reference	----------	R33-1.5
Location	----------	R33
Depth		1.5
Sample Matrix		Soil
Date Sampled		4/02/2011
Date Extracted (Metals)		10/02/2011
Date Analysed (Metals)		10/02/2011
Arsenic	mg/kg	9
Cadmium	mg/kg	0.5
Chromium	mg/kg	43
Copper	mg/kg	300
Lead	mg/kg	310
Nickel	mg/kg	26
Zinc	mg/kg	330

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Mercury Cold Vapor/Hg Analyser						
Our Reference:	UNITS	SE85229-3	SE85229-4	SE85229-5	SE85229-8	SE85229-9
Your Reference	----------	R21-0.4	R21-1.0	R21-1.5	R23-0.6	R23-1.0
Location	----------	R21	R21	R21	R23	R23
Depth		0.4	1.0	1.5	0.6	1.0
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Date Sampled		3/02/2011	3/02/2011	3/02/2011	3/02/2011	3/02/2011
Date Extracted (Mercury)		15/02/2011	15/02/2011	15/02/2011	15/02/2011	15/02/2011
Date Analysed (Mercury)		15/02/2011	15/02/2011	15/02/2011	15/02/2011	15/02/2011
Mercury	mg/kg	0.09	<0.05	0.07	0.99	0.38

Mercury Cold Vapor/Hg Analyser						
Our Reference:	UNITS	SE85229-14	SE85229-16	SE85229-17	SE85229-20	SE85229-23
Your Reference	----------	R25-1.0	R25-2.0	R27-0.3	R27-1.6	R32-0.5
Location	----------	R25	R25	R27	R27	R32
Depth		1.0	2.0	0.3	1.6	0.5
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Date Sampled		3/02/2011	3/02/2011	3/02/2011	3/02/2011	3/02/2011
Date Extracted (Mercury)		15/02/2011	15/02/2011	15/02/2011	15/02/2011	15/02/2011
Date Analysed (Mercury)		15/02/2011	15/02/2011	15/02/2011	15/02/2011	15/02/2011
Mercury	mg/kg	0.56	0.40	0.56	0.40	1.0

Mercury Cold Vapor/Hg Analyser						
Our Reference:	UNITS	SE85229-26	SE85229-27	SE85229-29	SE85229-32	SE85229-35
Your Reference	----------	R32-2.0	QC1	QC2	QC4	R22-1.0
Location	----------	R32	-	-	-	R22
Depth		2.0	-	-	-	1.0
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Date Sampled		3/02/2011	3/02/2011	3/02/2011	3/02/2011	4/02/2011
Date Extracted (Mercury)		15/02/2011	15/02/2011	15/02/2011	15/02/2011	15/02/2011
Date Analysed (Mercury)		15/02/2011	15/02/2011	15/02/2011	15/02/2011	15/02/2011
Mercury	mg/kg	0.11	<0.05	<0.05	0.16	0.30

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Mercury Cold Vapor/Hg Analyser Our Reference: Your Reference Location Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85229-39 R24-0.5 R24 0.5 Soil 4/02/2011	SE85229-41 R24-1.5 R24 1.5 Soil 4/02/2011	SE85229-44 R26-0.5 R26 0.5 Soil 4/02/2011	SE85229-50 R34A-1.0 R34A 1.0 Soil 4/02/2011	SE85229-54 R31-0.5 R31 0.5 Soil 4/02/2011
Date Extracted (Mercury)		15/02/2011	15/02/2011	15/02/2011	15/02/2011	15/02/2011
Date Analysed (Mercury)		15/02/2011	15/02/2011	15/02/2011	15/02/2011	15/02/2011
Mercury	mg/kg	0.58	0.75	0.83	0.68	0.68

Mercury Cold Vapor/Hg Analyser Our Reference: Your Reference Location Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85229-61 R33-1.5 R33 1.5 Soil 4/02/2011
Date Extracted (Mercury)		15/02/2011
Date Analysed (Mercury)		15/02/2011
Mercury	mg/kg	0.39

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Asbestos ID in soil Our Reference:	UNITS	SE85229-3	SE85229-4	SE85229-8	SE85229-9	SE85229-14
Your Reference	----------	R21-0.4	R21-1.0	R23-0.6	R23-1.0	R25-1.0
Location	----------	R21	R21	R23	R23	R25
Depth		0.4	1.0	0.6	1.0	1.0
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Date Sampled		3/02/2011	3/02/2011	3/02/2011	3/02/2011	3/02/2011
Date Analysed		11/02/2011	11/02/2011	11/02/2011	11/02/2011	11/02/2011
Sample Description		83g Soil,Rocks	60g Soil,Rocks	71g Soil,Clay	96g Soil,Rocks	117g Soil,Rocks
Asbestos ID in soil	-	No asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected	Chrysotile asbestos detected Amosite asbestos detected Crocidolite asbestos detected Organic fibres detected	Chrysotile asbestos detected Organic fibres detected	Chrysotile asbestos detected Organic fibres detected

Asbestos ID in soil Our Reference:	UNITS	SE85229-16	SE85229-17	SE85229-20	SE85229-21	SE85229-23
Your Reference	----------	R25-2.0	R27-0.3	R27-1.6	R27-2.0	R32-0.5
Location	----------	R25	R27	R27	R27	R32
Depth		2.0	0.3	1.6	2.0	0.5
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Date Sampled		3/02/2011	3/02/2011	3/02/2011	3/02/2011	3/02/2011
Date Analysed		11/02/2011	11/02/2011	11/02/2011	11/02/2011	11/02/2011
Sample Description		92g Soil,Rocks, Clay	130g Soil,Rocks	85g Soil,Rocks, Clay	108g Soil,Rocks, Clay	103g Soil,Rocks
Asbestos ID in soil	-	No asbestos detected Organic fibres detected	Chrysotile asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected	Chrysotile asbestos detected Organic fibres detected

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Asbestos ID in soil Our Reference:	UNITS	SE85229-26	SE85229-27	SE85229-29	SE85229-32	SE85229-35
Your Reference	----------	R32-2.0	QC1	QC2	QC4	R22-1.0
Location	----------	R32	-	-	-	R22
Depth		2.0	-	-	-	1.0
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Date Sampled		3/02/2011	3/02/2011	3/02/2011	3/02/2011	4/02/2011
Date Analysed		11/02/2011	11/02/2011	11/02/2011	11/02/2011	11/02/2011
Sample Description		69g Soil,Rocks	54g Soil,Rocks	76g Soil,Rocks	80g Soil,Rocks	56g Soil,Rocks
Asbestos ID in soil	-	No asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected	Chrysotile asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected	Chrysotile asbestos detected Organic fibres detected

Asbestos ID in soil Our Reference:	UNITS	SE85229-39	SE85229-41	SE85229-44	SE85229-46	SE85229-48
Your Reference	----------	R24-0.5	R24-1.5	R26-0.5	R26-1.5	R34A-0.2
Location	----------	R24	R24	R26	R26	R34A
Depth		0.5	1.5	0.5	1.5	0.2
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Date Sampled		4/02/2011	4/02/2011	4/02/2011	4/02/2011	4/02/2011
Date Analysed		11/02/2011	11/02/2011	11/02/2011	11/02/2011	11/02/2011
Sample Description		97g Soil,Rocks	106g Soil,Rocks	108g Soil,Rocks	93g Soil,Rocks	85g Soil,Rocks
Asbestos ID in soil	-	No asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected	Chrysotile asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected

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Asbestos ID in soil Our Reference:	UNITS	SE85229-50	SE85229-52	SE85229-54	SE85229-55	SE85229-57
Your Reference	----------	R34A-1.0	R34A-2.0	R31-0.5	R31-1.0	R31-2.0
Location	----------	R34A	R34A	R31	R31	R31
Depth		1.0	2.0	0.5	1.0	2.0
Sample Matrix		Soil	Soil	Soil	Soil	Soil
Date Sampled		4/02/2011	4/02/2011	4/02/2011	4/02/2011	4/02/2011
Date Analysed		11/02/2011	11/02/2011	11/02/2011	11/02/2011	11/02/2011
Sample Description		77g Soil,Rocks	67g Soil,Rocks	89g Soil,Rocks	104g Soil,Rocks	107g Soil,Rocks
Asbestos ID in soil	-	Chrysotile asbestos detected Organic fibres detected	Chrysotile asbestos detected Organic fibres detected	Chrysotile asbestos detected Organic fibres detected	Chrysotile asbestos detected Organic fibres detected	Chrysotile asbestos detected Organic fibres detected

Asbestos ID in soil Our Reference:	UNITS	SE85229-59	SE85229-61	SE85229-62
Your Reference	----------	R33-0.5	R33-1.5	R33-2.0
Location	----------	R33	R33	R33
Depth		0.5	1.5	2.0
Sample Matrix		Soil	Soil	Soil
Date Sampled		4/02/2011	4/02/2011	4/02/2011
Date Analysed		11/02/2011	11/02/2011	11/02/2011
Sample Description		105g Soil,Rocks	87g Soil,Rocks	99g Soil,Rocks
Asbestos ID in soil	-	No asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected	Chrysotile asbestos detected Crocidolite asbestos detected Organic fibres detected

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BTEX in Water (µg/L) Our Reference: Your Reference Location Depth Sample Matrix Date Sampled	UNITS ---------- ---------- 	 SE85229-63 TB2 - - Water 4/02/2011
Date Extracted (BTEX)		9/02/2011
Date Analysed (BTEX)		9/02/2011
Benzene	µg/L	<0.5
Toluene	µg/L	<0.5
Ethylbenzene	µg/L	<0.5
Total Xylenes	µg/L	<1.5
Surrogate	%	107

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TRH C6-C9 by P/T ONLY-in water		
Our Reference:	UNITS	SE85229-63
Your Reference	----------	TB2
Location	----------	-
Depth		-
Sample Matrix		Water
Date Sampled		4/02/2011
Date Extracted (TRH C6-C9 PT)		9/02/2011
Date Analysed (TRH C6-C9 PT)		9/02/2011
TRH C_6 - C_9 P&T in µg/L	µg/L	<40

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Moisture Our Reference: Your Reference Location Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85229-3 R21-0.4 R21 0.4 Soil 3/02/2011	SE85229-4 R21-1.0 R21 1.0 Soil 3/02/2011	SE85229-5 R21-1.5 R21 1.5 Soil 3/02/2011	SE85229-8 R23-0.6 R23 0.6 Soil 3/02/2011	SE85229-9 R23-1.0 R23 1.0 Soil 3/02/2011
Date Analysed (moisture)		10/02/2011	10/02/2011	10/02/2011	10/02/2011	10/02/2011
Moisture	%	13	22	17	13	19

Moisture Our Reference: Your Reference Location Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85229-10 R23-1.5 R23 1.5 Soil 3/02/2011	SE85229-14 R25-1.0 R25 1.0 Soil 3/02/2011	SE85229-16 R25-2.0 R25 2.0 Soil 3/02/2011	SE85229-17 R27-0.3 R27 0.3 Soil 3/02/2011	SE85229-20 R27-1.6 R27 1.6 Soil 3/02/2011
Date Analysed (moisture)		10/02/2011	10/02/2011	10/02/2011	10/02/2011	10/02/2011
Moisture	%	15	14	14	7	9

Moisture Our Reference: Your Reference Location Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85229-23 R32-0.5 R32 0.5 Soil 3/02/2011	SE85229-26 R32-2.0 R32 2.0 Soil 3/02/2011	SE85229-27 QC1 - - Soil 3/02/2011	SE85229-29 QC2 - - Soil 3/02/2011	SE85229-32 QC4 - - Soil 3/02/2011
Date Analysed (moisture)		10/02/2011	10/02/2011	10/02/2011	10/02/2011	10/02/2011
Moisture	%	8	9.9	27	9	14

Moisture Our Reference: Your Reference Location Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85229-35 R22-1.0 R22 1.0 Soil 4/02/2011	SE85229-39 R24-0.5 R24 0.5 Soil 4/02/2011	SE85229-41 R24-1.5 R24 1.5 Soil 4/02/2011	SE85229-44 R26-0.5 R26 0.5 Soil 4/02/2011	SE85229-50 R34A-1.0 R34A 1.0 Soil 4/02/2011
Date Analysed (moisture)		10/02/2011	10/02/2011	10/02/2011	10/02/2011	10/02/2011
Moisture	%	16	10	11	10	13

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Moisture Our Reference:	UNITS	SE85229-54	SE85229-61
Your Reference	----------	R31-0.5	R33-1.5
Location	----------	R31	R33
Depth		0.5	1.5
Sample Matrix		Soil	Soil
Date Sampled		4/02/2011	4/02/2011
Date Analysed (moisture)		10/02/2011	10/02/2011
Moisture	%	10	13

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Method ID	Methodology Summary
SEO-018	BTEX / C6-C9 Hydrocarbons - Soil samples are extracted with methanol, purged and concentrated by a purge and trap apparatus, and then analysed using GC/MS technique. Water samples undergo the same analysis without the extraction step. Based on USEPA 5030B and 8260B.
SEO-020	Total Recoverable Hydrocarbons - determined by solvent extraction with dichloromethane / acetone for soils and dichloromethane for waters, followed by instrumentation analysis using GC/FID. Where applicable Solid Phase Extraction Manifold technique is used for aliphatic / aromatic fractionation.
SEO-030	Polynuclear Aromatic Hydrocarbons - determined by solvent extraction with dichloromethane / acetone for soils and dichloromethane for waters, followed by instrumentation analysis using GC/MS SIM mode.
SEM-010	Determination of elements by ICP-OES following appropriate sample preparation / digestion process. Based on USEPA 6010C / APHA 21st Edition, 3120B.
SEM-005	Mercury - determined by Cold-Vapour AAS following appropriate sample preparation or digestion process. Based on APHA 21st Edition, 3112B.
AN602	Analysed using in house method AN602 - Qualitative identification of Asbestos Fibres, Synthetic Mineral Fibres and Organic Fibres in bulk samples (including building materials and soils) using Polarised Light Microscopy and Dispersion Staining Techniques. Our NATA Accreditation does not currently cover the identification of Synthetic Mineral Fibres and Organic Fibres, however, according to new NATA requirements, the reporting of these fibres is compulsory if detected.
AN002	Preparation of soils, sediments and sludges undergo analysis by either air drying, compositing, subsampling and 1:5 soil water extraction where required. Moisture content is determined by drying the sample at 105 ± 5°C.

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QUALITY CONTROL BTEX in Soil	UNITS	LOR	METHOD	Blank
Date Extracted (BTEX)				10/02/11
Date Analysed (BTEX)				12/02/11
Benzene	mg/kg	0.1	SEO-018	<0.1
Toluene	mg/kg	0.1	SEO-018	<0.1
Ethylbenzene	mg/kg	0.1	SEO-018	<0.1
Total Xylenes	mg/kg	0.3	SEO-018	<0.3
BTEX Surrogate (%)	%	0	SEO-018	109

QUALITY CONTROL TRH in soil with C6-C9 by P/T	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (TRH C6-C9 PT)				10/02/11	SE85229-3	10/02/2011 || 10/02/2011	[NR]	[NR]
Date Analysed (TRH C6-C9 PT)				12/02/11	SE85229-3	12/02/2011 || 12/02/2011	[NR]	[NR]
TRH C_6 - C_9 P&T	mg/kg	20	SEO-018	<20	SE85229-3	<20 || [N/T]	[NR]	[NR]
Date Extracted (TRH C10-C36)				10/02/2011	SE85229-3	10/02/2011 || 10/02/2011	SE85229-4	10/02/2011
Date Analysed (TRH C10-C36)				10/02/2011	SE85229-3	10/02/2011 || 10/02/2011	SE85229-4	10/02/2011
TRH C_{10} - C_{14}	mg/kg	20	SEO-020	<20	SE85229-3	<20 || <20	SE85229-4	122%
TRH C_{15} - C_{28}	mg/kg	50	SEO-020	<50	SE85229-3	<50 || <50	SE85229-4	124%
TRH C_{29} - C_{36}	mg/kg	50	SEO-020	<50	SE85229-3	<50 || <50	SE85229-4	99%

QUALITY CONTROL PAHs in Soil	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted				10/02/2011	SE85229-26	10/02/2011 || 10/02/2011	LCS	10/02/2011
Date Analysed				10/02/2011	SE85229-26	10/02/2011 || 10/02/2011	LCS	10/02/2011
Naphthalene	mg/kg	0.1	SEO-030	<0.10	SE85229-26	<0.10 || <0.10	LCS	90%
Acenaphthylene	mg/kg	0.1	SEO-030	<0.10	SE85229-26	0.32 || 0.27 || RPD: 17	LCS	80%
Acenaphthene	mg/kg	0.1	SEO-030	<0.10	SE85229-26	<0.10 || 0.10	LCS	94%
Fluorene	mg/kg	0.1	SEO-030	<0.10	SE85229-26	0.25 || 0.19 || RPD: 27	[NR]	[NR]
Phenanthrene	mg/kg	0.1	SEO-030	<0.10	SE85229-26	2.4 || 2.4 || RPD: 0	LCS	81%

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QUALITY CONTROL PAHs in Soil	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Anthracene	mg/kg	0.1	SEO-030	<0.10	SE85229-26	1.3 || 1.9 || RPD: 37	LCS	98%
Fluoranthene	mg/kg	0.1	SEO-030	<0.10	SE85229-26	5.7 || 6.9 || RPD: 19	LCS	90%
Pyrene	mg/kg	0.1	SEO-030	<0.10	SE85229-26	5.5 || 6.8 || RPD: 21	LCS	93%
Benzo[*a*]anthracene	mg/kg	0.1	SEO-030	<0.10	SE85229-26	4.5 || 5.5 || RPD: 20	[NR]	[NR]
Chrysene	mg/kg	0.1	SEO-030	<0.10	SE85229-26	2.2 || 2.8 || RPD: 24	[NR]	[NR]
Benzo[*b*]fluoranthene	mg/kg	0.1	SEO-030	<0.1	SE85229-26	6.6 || 5.4 || RPD: 20	[NR]	[NR]
Benzo[*k*]fluoranthene	mg/kg	0.1	SEO-030	<0.10	SE85229-26	3.8 || 1.4 || RPD: 92	[NR]	[NR]
Benzo[*a*]pyrene	mg/kg	0.1	SEO-030	<0.10	SE85229-26	2.7 || 3.2 || RPD: 17	LCS	80%
Indeno[*123-cd*]pyrene	mg/kg	0.1	SEO-030	<0.10	SE85229-26	1.4 || 1.7 || RPD: 19	[NR]	[NR]
Dibenzo[*ah*]anthracene	mg/kg	0.1	SEO-030	<0.10	SE85229-26	0.36 || 0.45 || RPD: 22	[NR]	[NR]
Benzo[*ghi*]perylene	mg/kg	0.1	SEO-030	<0.10	SE85229-26	1.6 || 1.8 || RPD: 12	[NR]	[NR]
Total PAHs (sum)	mg/kg	1.6	SEO-030	<2	SE85229-26	<38.84 || <41.15	LCS	<1.6
Nitrobenzene-d5	%	0	SEO-030	98	SE85229-26	87 || 94 || RPD: 8	LCS	108%
2-Fluorobiphenyl	%	0	SEO-030	98	SE85229-26	96 || 99 || RPD: 3	LCS	101%
p -Terphenyl-*d*14	%	0	SEO-030	104	SE85229-26	100 || 100 || RPD: 0	LCS	103%

QUALITY CONTROL Metals in Soil by ICP-OES	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (Metals)				10/02/11	SE85229-3	10/02/2011 || 10/02/2011	[NR]	[NR]
Date Analysed (Metals)				10/02/11	SE85229-3	10/02/2011 || 10/02/2011	[NR]	[NR]
Arsenic	mg/kg	3	SEM-010	<3	SE85229-3	14 || 17 || RPD: 19	SE85229-4	<3
Cadmium	mg/kg	0.3	SEM-010	<0.3	SE85229-3	3.9 || 4.2 || RPD: 7	SE85229-4	<0.3
Chromium	mg/kg	0.3	SEM-010	<0.3	SE85229-3	55 || 55 || RPD: 0	SE85229-4	<0.3
Copper	mg/kg	0.5	SEM-010	<0.5	SE85229-3	1500 || 1300 || RPD: 14	SE85229-4	<0.5
Lead	mg/kg	1	SEM-010	<1	SE85229-3	6300 || 5500 || RPD: 14	SE85229-4	<1

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QUALITY CONTROL Metals in Soil by ICP-OES	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Nickel	mg/kg	0.5	SEM-010	<0.5	SE85229-3	50 || 54 || RPD: 8	SE85229-4	<0.5
Zinc	mg/kg	0.5	SEM-010	<0.5	SE85229-3	2100 || 2200 || RPD: 5	SE85229-4	<0.5

QUALITY CONTROL Mercury Cold Vapor/Hg Analyser	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (Mercury)				15/02/2011	SE85229-3	15/02/2011 || 15/02/2011	SE85229-4	15/02/2011
Date Analysed (Mercury)				15/02/2011	SE85229-3	15/02/2011 || 15/02/2011	SE85229-4	15/02/2011
Mercury	mg/kg	0.05	SEM-005	<0.05	SE85229-3	0.09 || 0.06 || RPD: 40	SE85229-4	101%

QUALITY CONTROL Asbestos ID in soil	UNITS	LOR	METHOD	Blank
Date Analysed				[NT]

QUALITY CONTROL BTEX in Water (µg/L)	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (BTEX)				09/02/11	[NT]	[NT]	LCS	09/02/11
Date Analysed (BTEX)				09/02/11	[NT]	[NT]	LCS	09/02/11
Benzene	µg/L	0.5	SEO-018	<0.5	[NT]	[NT]	LCS	105%
Toluene	µg/L	0.5	SEO-018	<0.5	[NT]	[NT]	LCS	105%
Ethylbenzene	µg/L	0.5	SEO-018	<0.5	[NT]	[NT]	LCS	102%
Total Xylenes	µg/L	1.5	SEO-018	<1.5	[NT]	[NT]	LCS	103%
Surrogate	%	0	SEO-018	98	[NT]	[NT]	LCS	76%

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QUALITY CONTROL TRH C6-C9 by P/T ONLY-in water	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (TRH C6-C9 PT)				09/02/11	[NT]	[NT]	LCS	09/02/11
Date Analysed (TRH C6-C9 PT)				09/02/11	[NT]	[NT]	LCS	09/02/11
TRH C_6 - C_9 P&T in µg/L	µg/L	40	SEO-018	<40	[NT]	[NT]	LCS	116%

QUALITY CONTROL Hold sample-**NO test** required	UNITS	LOR	METHOD	Blank
Sample on HOLD		[NT]		[NT]

QUALITY CONTROL Moisture	UNITS	LOR	METHOD	Blank
Date Analysed (moisture)				[NT]
Moisture	%	1	AN002	<1

QUALITY CONTROL BTEX in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (BTEX)		[NT]	[NT]	SE85229-26	10/02/11
Date Analysed (BTEX)		[NT]	[NT]	SE85229-26	13/02/11
Benzene	mg/kg	[NT]	[NT]	SE85229-26	81%
Toluene	mg/kg	[NT]	[NT]	SE85229-26	84%
Ethylbenzene	mg/kg	[NT]	[NT]	SE85229-26	85%
Total Xylenes	mg/kg	[NT]	[NT]	SE85229-26	92%
BTEX Surrogate (%)	%	[NT]	[NT]	SE85229-26	85%

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QUALITY CONTROL TRH in soil with C6-C9 by P/T	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (TRH C6-C9 PT)		SE85229-26	10/02/2011 || 10/02/2011	SE85229-26	10/02/11
Date Analysed (TRH C6-C9 PT)		SE85229-26	12/02/2011 || 12/02/2011	SE85229-26	13/02/11
TRH C_6 - C_9 P&T	mg/kg	SE85229-26	<20 || [N/T]	SE85229-26	97%
Date Extracted (TRH C10-C36)		SE85229-26	10/02/2011 || 10/02/2011	[NR]	[NR]
Date Analysed (TRH C10-C36)		SE85229-26	10/02/2011 || 10/02/2011	[NR]	[NR]
TRH C_{10} - C_{14}	mg/kg	SE85229-26	<20 || <20	[NR]	[NR]
TRH C_{15} - C_{28}	mg/kg	SE85229-26	210 || 240 || RPD: 13	[NR]	[NR]
TRH C_{29} - C_{36}	mg/kg	SE85229-26	220 || 180 || RPD: 20	[NR]	[NR]

QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date Extracted		SE85229-3	10/02/2011 || 10/02/2011
Date Analysed		SE85229-3	10/02/2011 || 10/02/2011
Naphthalene	mg/kg	SE85229-3	<0.10 || <0.10
Acenaphthylene	mg/kg	SE85229-3	<0.10 || <0.10
Acenaphthene	mg/kg	SE85229-3	<0.10 || <0.10
Fluorene	mg/kg	SE85229-3	<0.10 || <0.10
Phenanthrene	mg/kg	SE85229-3	<0.10 || <0.10
Anthracene	mg/kg	SE85229-3	<0.10 || <0.10
Fluoranthene	mg/kg	SE85229-3	<0.10 || <0.10
Pyrene	mg/kg	SE85229-3	<0.10 || <0.10
Benzo[*a*]anthracene	mg/kg	SE85229-3	<0.10 || <0.10
Chrysene	mg/kg	SE85229-3	<0.10 || <0.10
Benzo[*b*]fluoranthene	mg/kg	SE85229-3	<0.1 || <0.1
Benzo[*k*]fluoranthene	mg/kg	SE85229-3	<0.10 || <0.10
Benzo[*a*]pyrene	mg/kg	SE85229-3	<0.10 || <0.10
Indeno[*123-cd*]pyrene	mg/kg	SE85229-3	<0.10 || <0.10
Dibenzo[*ah*]anthracene	mg/kg	SE85229-3	<0.10 || <0.10

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QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Benzo[*ghi*]perylene	mg/kg	SE85229-3	<0.10 || <0.10
Total PAHs (sum)	mg/kg	SE85229-3	<2 || <2
Nitrobenzene-d5	%	SE85229-3	116 || 92 || RPD: 23
2-Fluorobiphenyl	%	SE85229-3	100 || 78 || RPD: 25
p -Terphenyl-*d14*	%	SE85229-3	100 || 102 || RPD: 2

QUALITY CONTROL Metals in Soil by ICP-OES	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date Extracted (Metals)		SE85229-27	11/02/2011 || 11/02/2011
Date Analysed (Metals)		SE85229-27	11/02/2011 || 11/02/2011
Arsenic	mg/kg	SE85229-27	12 || 11 || RPD: 9
Cadmium	mg/kg	SE85229-27	2.1 || 2.1 || RPD: 0
Chromium	mg/kg	SE85229-27	30 || 35 || RPD: 15
Copper	mg/kg	SE85229-27	940 || 850 || RPD: 10
Lead	mg/kg	SE85229-27	1300 || 1100 || RPD: 17
Nickel	mg/kg	SE85229-27	60 || 68 || RPD: 12
Zinc	mg/kg	SE85229-27	1600 || 1500 || RPD: 6

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QUALITY CONTROL Mercury Cold Vapor/Hg Analyser	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date Extracted (Mercury)		SE85229-26	15/02/2011 || 15/02/2011
Date Analysed (Mercury)		SE85229-26	15/02/2011 || 15/02/2011
Mercury	mg/kg	SE85229-26	0.11 || 0.13 || RPD: 17

QUALITY CONTROL BTEX in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date Extracted (BTEX)		SE85229-61	10/02/2011 || 10/02/2011
Date Analysed (BTEX)		SE85229-61	12/02/2011 || 12/02/2011
Benzene	mg/kg	SE85229-61	<0.1 || <0.1
Toluene	mg/kg	SE85229-61	<0.1 || <0.1
Ethylbenzene	mg/kg	SE85229-61	<0.1 || <0.1
Total Xylenes	mg/kg	SE85229-61	<0.3 || <0.3
BTEX Surrogate (%)	%	SE85229-61	105 || 106 || RPD: 1

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QUALITY CONTROL TRH in soil with C6-C9 by P/T	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date Extracted (TRH C6-C9 PT)		SE85229-61	10/02/2011 || 10/02/2011
Date Analysed (TRH C6-C9 PT)		SE85229-61	12/02/2011 || 12/02/2011
TRH C_6 - C_9 P&T	mg/kg	SE85229-61	<20 || <20
Date Extracted (TRH C10-C36)		SE85229-61	10/02/2011 || 10/02/2011
Date Analysed (TRH C10-C36)		SE85229-61	10/02/2011 || 10/02/2011
TRH C_{10} - C_{14}	mg/kg	SE85229-61	<20 || [N/T]
TRH C_{15} - C_{28}	mg/kg	SE85229-61	<50 || [N/T]
TRH C_{29} - C_{36}	mg/kg	SE85229-61	<50 || [N/T]

QUALITY CONTROL Mercury Cold Vapor/Hg Analyser	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date Extracted (Mercury)		SE85229-61	15/02/2011 || 15/02/2011
Date Analysed (Mercury)		SE85229-61	15/02/2011 || 15/02/2011
Mercury	mg/kg	SE85229-61	0.39 || 0.40 || RPD: 3

QUALITY CONTROL BTEX in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date Extracted (BTEX)		SE85229-23	10/02/2011 || 10/02/2011
Date Analysed (BTEX)		SE85229-23	12/02/2011 || 12/02/2011
Benzene	mg/kg	SE85229-23	<0.1 || <0.1
Toluene	mg/kg	SE85229-23	<0.1 || <0.1
Ethylbenzene	mg/kg	SE85229-23	<0.1 || <0.1
Total Xylenes	mg/kg	SE85229-23	<0.3 || <0.3

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QUALITY CONTROL BTEX in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
BTEX Surrogate (%)	%	SE85229-23	82 || 93 || RPD: 13

QUALITY CONTROL TRH in soil with C6-C9 by P/T	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date Extracted (TRH C6-C9 PT)		SE85229-23	10/02/2011 || 10/02/2011
Date Analysed (TRH C6-C9 PT)		SE85229-23	12/02/2011 || 12/02/2011
TRH C_6 - C_9 P&T	mg/kg	SE85229-23	<20 || <20
Date Extracted (TRH C10-C36)		SE85229-23	10/02/2011 || 10/02/2011
Date Analysed (TRH C10-C36)		SE85229-23	10/02/2011 || 10/02/2011
TRH C_{10} - C_{14}	mg/kg	SE85229-23	<20 || [N/T]
TRH C_{15} - C_{28}	mg/kg	SE85229-23	240 || [N/T]
TRH C_{29} - C_{36}	mg/kg	SE85229-23	130 || [N/T]

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Result Codes

[INS] : Insufficient Sample for this test
[NR] : Not Requested
[NT] : Not tested
[LOR] : Limit of reporting
[RPD] : Relative Percentage Difference
* : Not part of NATA Accreditation
[N/A] : Not Applicable

Report Comments

Sampled by the client

Even after disintegration it can be very difficult, or impossible, to detect the presence of asbestos in some asbestos-containing bulk materials using polarised light microscopy.
This is due to the low grade or small length or diameter of asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials.

No respirable fibres detected using trace analysis technique.

Sample # 8,17,29,54 :1-3mm length fibre bundles found loose in sample.

Sample # 52 :1-3mm length fibre bundles found loose in sample and in 8x4mm cement sheet fragment.

Sample # 62 :1-3mm length fibre bundles found loose in sample and in 6x2x2mm Cement sheet fragments.

Sample # 9,14,23,35,44,50,55,57 :1-2mm length fibre bundle hand picked and found loose in sample

Sample # 9,14,23 ,35,44,50,55 57: <0.1g/kg
Sample # 8,17,29 52,54,62 : >0.1g/kg

TRH/PAH - Duplicate not recovered within acceptance criteria due to inhomogenous samples.

PAH - Duplicate not recovered within acceptance criteria due to inhomogeneous sample.

Asbestos analysed by Approved Identifier Yusuf Kuthpudin.
Samples analysed as received. Solid samples expressed on a dry weight basis.
Date Organics extraction commenced:
NATA Corporate Accreditation No. 2562, Site No 4354
Note: Test results are not corrected for recovery (excluding Air-toxics and Dioxins/Furans*)
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Quality Control Protocol

Method Blank: An analyte free matrix to which all reagents are added in the same volume or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. A method blank is prepared every 20 samples.
Duplicate: A separate portion of a sample being analysed that is treated the same as the other samples in the batch. One duplicate is processed at least every 10 samples.
Surrogate Spike: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are added to samples before extraction to monitor extraction efficiency and percent recovery in each sample.
Internal Standard: Added to all samples requiring analysis for organics (where relevant) or metals by ICP after the extraction/digestion process; the compounds/elements serve to give a standard of retention time and/or response, which is invariant from run-to-run with the instruments.
Laboratory Control Sample: A known matrix spiked with compound(s) representative of the target analytes. It is used to document laboratory performance. When the results of the matrix spike analysis indicates a potential problem due to the sample matrix itself, the LCS results are used to verify that the laboratory can perform the analysis in a clean matrix.
Matrix Spike: An aliquot of sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

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Quality Acceptance Criteria

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: http://www.au.sgs.com/sgs-mp-au-env-qu-022-qa-qc-plan-en-09.pdf

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ANALYTICAL REPORT

21 February 2011

Coffey Environments Pty Ltd
Level 1, 3 Rider Boulevard
RHODES
NSW 2138

Attention: **Nalin De Silva**

Your Reference: ENAURHOD04108AA - Additional Analysis

Our Reference: SE85229A Samples: 2 Soils
Received: 4/02/2011

Preliminary Report Sent: Not Issued

These samples were analysed in accordance with your written instructions.

For and on Behalf of:
SGS ENVIRONMENTAL SERVICES

Sample Receipt:	Angela Mamalicos	AU.SampleReceipt.Sydney@sgs.com
Production Manager:	Huong Crawford	Huong.Crawford@sgs.com

Results Approved and/or Authorised by:

Huong Crawford
Metals Signatory

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Metals in TCLP Our Reference: Your Reference Location Depth Sample Matrix Date Sampled	UNITS ---------- ----------	SE85229A-3 R21-0.4 R21 0.4 Soil 3/02/2011	SE85229A-50 R34A-1.0 R34A 1.0 Soil 4/02/2011
Date Extracted (TCLP Preparation)		18/02/2011	18/02/2011
pH of soil for fluid# determ.	pH units	7.98	8.11
pH of soil for fluid # determ. (acid)	pH units	1.97	1.74
Extraction fluid used	-	1	1
pH of final Leachate	pH units	6.01	5.26
Date Extracted (Metals)		21/02/2011	21/02/2011
Date Analysed (Metals)		21/02/2011	21/02/2011
Lead	mg/L	0.07	1.1

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Method ID	Methodology Summary
AN006	Toxicity Characteristic Leaching Procedure (TCLP) - Preparation of leachates for assessing the mobility of both organic and inorganic contaminants present in liquid, solid, and multiphase wastes. Based on USEPA 1311. For volatile analytes, Zero-Headspace Extraction Vessel (ZHE) is used. This method also meets the requirements of Australian Standard Leaching Procedure (ASLP) AS 4439.3-1997 Part 3.
AN101	pH - Measured using pH meter and electrode based on APHA 21st Edition, 4500-H+. For water analyses the results reported are indicative only as the sample holding time requirement specified in APHA was not met (APHA requires that the pH of the samples are to be measured within 15 minutes after sampling).
SEM-010	Determination of elements by ICP-OES following appropriate sample preparation / digestion process. Based on USEPA 6010C / APHA 21st Edition, 3120B.

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QUALITY CONTROL Metals in TCLP	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
pH of soil for fluid# determ.	pH units	0	AN101	[NT]	[NT]	[NT]	[NR]	[NR]
pH of soil for fluid # determ. (acid)	pH units	0	AN101	[NT]	[NT]	[NT]	[NR]	[NR]
Extraction fluid used	-		AN006	[NT]	[NT]	[NT]	[NR]	[NR]
pH of final Leachate	pH units	0	AN101	[NT]	[NT]	[NT]	[NR]	[NR]
Date Extracted (Metals)				21/02/2011	[NT]	[NT]	LCS	21/02/2011
Date Analysed (Metals)				21/02/2011	[NT]	[NT]	LCS	21/02/2011
Lead	mg/L	0.02	SEM-010	<0.02	[NT]	[NT]	LCS	97%

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Result Codes

[INS] : Insufficient Sample for this test
[NR] : Not Requested
[NT] : Not tested
[LOR] : Limit of reporting
[RPD] : Relative Percentage Difference
* : Not part of NATA Accreditation
[N/A] : Not Applicable

Report Comments

Samples analysed as received. Solid samples expressed on a dry weight basis.
Date Organics extraction commenced:
NATA Corporate Accreditation No. 2562, Site No 4354
Note: Test results are not corrected for recovery (excluding Air-toxics and Dioxins/Furans*)
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Quality Control Protocol

Method Blank: An analyte free matrix to which all reagents are added in the same volume or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. A method blank is prepared every 20 samples.
Duplicate: A separate portion of a sample being analysed that is treated the same as the other samples in the batch. One duplicate is processed at least every 10 samples.
Surrogate Spike: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are added to samples before extraction to monitor extraction efficiency and percent recovery in each sample.
Internal Standard: Added to all samples requiring analysis for organics (where relevant) or metals by ICP after the extraction/digestion process; the compounds/elements serve to give a standard of retention time and/or response, which is invariant from run-to-run with the instruments.
Laboratory Control Sample: A known matrix spiked with compound(s) representative of the target analytes. It is used to document laboratory performance. When the results of the matrix spike analysis indicates a potential problem due to the sample matrix itself, the LCS results are used to verify that the laboratory can perform the analysis in a clean matrix.
Matrix Spike: An aliquot of sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Quality Acceptance Criteria

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: http://www.au.sgs.com/sgs-mp-au-env-qu-022-qa-qc-plan-en-09.pdf

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ANALYTICAL REPORT

16 February 2011

Coffey Environments Pty Ltd
Level 1, 3 Rider Boulevard
RHODES
NSW 2138

Attention: **Nalin De Silva**

Your Reference: ENAURHOD04108AA - Green Square

Our Reference: SE85291 Samples: 50 Soils, 4 Waters
Received: 08/2/11

Preliminary Report Sent: 14/02/11

These samples were analysed in accordance with your written instructions.

For and on Behalf of:
SGS ENVIRONMENTAL SERVICES

Sample Receipt:	Angela Mamalicos	AU.SampleReceipt.Sydney@sgs.com
Production Manager:	Huong Crawford	Huong.Crawford@sgs.com

Results Approved and/or Authorised by:

Dong Liang
Quality Manager

Ravee Sivasubramaniam
Asbestos Signatory

Ly Kim Ha
Organics Signatory

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BTEX in Soil Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ---------- ----------	SE85291-2 BHD1 (0.5-0.6m) Soil 7/02/2011	SE85291-3 DUP9 Soil 7/02/2011	SE85291-10 BHD1 (7.0-7.1m) Soil 7/02/2011	SE85291-12 BHD1 (10.0-10.1m) Soil 7/02/2011	SE85291-20 I1 (3.9-4.0m) Soil 7/02/2011
Date Extracted (BTEX)		10/02/2011	10/02/2011	10/02/2011	10/02/2011	10/02/2011
Date Analysed (BTEX)		12/02/2011	12/02/2011	12/02/2011	12/02/2011	12/02/2011
Benzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
BTEX Surrogate (%)	%	104	93	119	108	95

BTEX in Soil Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ---------- ----------	SE85291-22 I1 (7.0-7.1m) Soil 7/02/2011	SE85291-25 I1 (10.0-10.1m) Soil 7/02/2011	SE85291-30 BHI4 (2.0-2.1m) Soil 7/02/2011	SE85291-33 BHI4 (5.0-5.1m) Soil 8/02/2011	SE85291-35 BHI4 (8.2-8.3m) Soil 8/02/2011
Date Extracted (BTEX)		10/02/2011	10/02/2011	10/02/2011	10/02/2011	10/02/2011
Date Analysed (BTEX)		12/02/2011	12/02/2011	12/02/2011	12/02/2011	12/02/2011
Benzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
BTEX Surrogate (%)	%	93	99	96	96	81

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BTEX in Soil Our Reference:	UNITS	SE85291-40	SE85291-43	SE85291-46	SE85291-47
Your Reference	----------	I2 (2.0-2.1m)	I2 (5.0-5.1m)	I2 (7.9-8.0m)	DUP13
Sample Matrix	----------	Soil	Soil	Soil	Soil
Date Sampled		8/02/2011	8/02/2011	8/02/2011	8/02/2011
Date Extracted (BTEX)		10/02/2011	10/02/2011	10/02/2011	10/02/2011
Date Analysed (BTEX)		12/02/2011	12/02/2011	12/02/2011	12/02/2011
Benzene	mg/kg	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	<0.3	<0.3	<0.3	<0.3
BTEX Surrogate (%)	%	93	86	77	90

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TRH in soil with C6-C9 by P/T Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ---------- ----------	SE85291-2 BHD1 (0.5-0.6m) Soil 7/02/2011	SE85291-3 DUP9 Soil 7/02/2011	SE85291-10 BHD1 (7.0-7.1m) Soil 7/02/2011	SE85291-12 BHD1 (10.0-10.1m) Soil 7/02/2011	SE85291-20 I1 (3.9-4.0m) Soil 7/02/2011
Date Extracted (TRH C6-C9 PT)		11/02/2011	11/02/2011	11/02/2011	11/02/2011	11/02/2011
Date Analysed (TRH C6-C9 PT)		12/02/2011	12/02/2011	12/02/2011	12/02/2011	12/02/2011
TRH C_6 - C_9 P&T	mg/kg	<20	<20	<20	<20	<20
Date Extracted (TRH C10-C36)		11/02/2011	11/02/2011	11/02/2011	11/02/2011	11/02/2011
Date Analysed (TRH C10-C36)		11/02/2011	11/02/2011	11/02/2011	11/02/2011	11/02/2011
TRH C_{10} - C_{14}	mg/kg	<20	<20	<20	<20	<20
TRH C_{15} - C_{28}	mg/kg	1,000	990	580	430	130
TRH C_{29} - C_{36}	mg/kg	670	610	500	340	79

TRH in soil with C6-C9 by P/T Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ---------- ----------	SE85291-22 I1 (7.0-7.1m) Soil 7/02/2011	SE85291-25 I1 (10.0-10.1m) Soil 7/02/2011	SE85291-30 BHI4 (2.0-2.1m) Soil 7/02/2011	SE85291-33 BHI4 (5.0-5.1m) Soil 8/02/2011	SE85291-35 BHI4 (8.2-8.3m) Soil 8/02/2011
Date Extracted (TRH C6-C9 PT)		11/02/2011	11/02/2011	11/02/2011	11/02/2011	11/02/2011
Date Analysed (TRH C6-C9 PT)		12/02/2011	12/02/2011	12/02/2011	12/02/2011	12/02/2011
TRH C_6 - C_9 P&T	mg/kg	<20	<20	<20	<20	<20
Date Extracted (TRH C10-C36)		11/02/2011	11/02/2011	11/02/2011	11/02/2011	11/02/2011
Date Analysed (TRH C10-C36)		11/02/2011	11/02/2011	11/02/2011	11/02/2011	11/02/2011
TRH C_{10} - C_{14}	mg/kg	<20	<20	<20	<20	<20
TRH C_{15} - C_{28}	mg/kg	<50	<50	220	<50	<50
TRH C_{29} - C_{36}	mg/kg	<50	<50	75	<50	<50

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TRH in soil with C6-C9 by P/T Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ---------- ----------	SE85291-40 I2 (2.0-2.1m) Soil 8/02/2011	SE85291-43 I2 (5.0-5.1m) Soil 8/02/2011	SE85291-46 I2 (7.9-8.0m) Soil 8/02/2011	SE85291-47 DUP13 Soil 8/02/2011
Date Extracted (TRH C6-C9 PT)		11/02/2011	11/02/2011	11/02/2011	11/02/2011
Date Analysed (TRH C6-C9 PT)		12/02/2011	12/02/2011	12/02/2011	12/02/2011
TRH C_6 - C_9 P&T	mg/kg	<20	<20	<20	<20
Date Extracted (TRH C10-C36)		11/02/2011	11/02/2011	11/02/2011	11/02/2011
Date Analysed (TRH C10-C36)		11/02/2011	11/02/2011	11/02/2011	11/02/2011
TRH C_{10} - C_{14}	mg/kg	<20	<20	<20	<20
TRH C_{15} - C_{28}	mg/kg	110	51	130	190
TRH C_{29} - C_{36}	mg/kg	71	<50	<50	<50

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PAHs in Soil Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ---------- ----------	SE85291-2 BHD1 (0.5-0.6m) Soil 7/02/2011	SE85291-3 DUP9 Soil 7/02/2011	SE85291-10 BHD1 (7.0-7.1m) Soil 7/02/2011	SE85291-12 BHD1 (10.0-10.1m) Soil 7/02/2011	SE85291-20 I1 (3.9-4.0m) Soil 7/02/2011
Date Extracted		11/02/2011	11/02/2011	11/02/2011	11/02/2011	11/02/2011
Date Analysed		11/02/2011	11/02/2011	11/02/2011	11/02/2011	11/02/2011
Naphthalene	mg/kg	1.9	2.4	0.34	0.38	0.17
Acenaphthylene	mg/kg	5.7	6.9	1.1	0.96	0.52
Acenaphthene	mg/kg	1.1	1.1	0.72	0.42	<0.10
Fluorene	mg/kg	3.2	4.3	1.7	1.3	0.21
Phenanthrene	mg/kg	43	27	11	8.2	3.4
Anthracene	mg/kg	14	8.9	3.7	3.1	0.93
Fluoranthene	mg/kg	51	34	16	15	4.6
Pyrene	mg/kg	46	32	15	15	4.5
Benzo[*a*]anthracene	mg/kg	32	19	11	12	3.4
Chrysene	mg/kg	15	11	6.1	6.6	1.7
Benzo[*b*]fluoranthene	mg/kg	33	20	12	13	3.3
Benzo[*k*]fluoranthene	mg/kg	9.0	6.1	2.5	3.1	0.82
Benzo[*a*]pyrene	mg/kg	20	13	7.0	7.2	2.2
Indeno[*123-cd*]pyrene	mg/kg	10	7.9	3.6	3.8	1.0
Dibenzo[*ah*]anthracene	mg/kg	2.7	2.2	0.95	1.0	0.27
Benzo[*ghi*]perylene	mg/kg	11	8.3	3.8	3.9	1.1
Total PAHs (sum)	mg/kg	300	200	97	96	<28.30
Nitrobenzene-d5	%	94	91	103	89	85
2-Fluorobiphenyl	%	113	111	115	83	98
p -Terphenyl-*d14*	%	108	108	108	108	101

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PAHs in Soil Our Reference:	UNITS	SE85291-22	SE85291-25	SE85291-30	SE85291-33	SE85291-35
Your Reference	----------	I1 (7.0-7.1m)	I1 (10.0-10.1 m)	BHI4 (2.0-2.1m)	BHI4 (5.0-5.1m)	BHI4 (8.2-8.3m)
Sample Matrix	----------	Soil	Soil	Soil	Soil	Soil
Date Sampled		7/02/2011	7/02/2011	7/02/2011	8/02/2011	8/02/2011
Date Extracted		11/02/2011	11/02/2011	11/02/2011	11/02/2011	11/02/2011
Date Analysed		11/02/2011	11/02/2011	11/02/2011	11/02/2011	11/02/2011
Naphthalene	mg/kg	<0.10	<0.10	3.3	0.12	<0.10
Acenaphthylene	mg/kg	<0.10	<0.10	2.0	<0.10	<0.10
Acenaphthene	mg/kg	<0.10	<0.10	0.63	<0.10	<0.10
Fluorene	mg/kg	<0.10	<0.10	3.2	0.13	<0.10
Phenanthrene	mg/kg	0.24	0.41	15	0.55	<0.10
Anthracene	mg/kg	0.13	0.23	4.1	0.26	<0.10
Fluoranthene	mg/kg	0.45	0.72	10	0.46	<0.10
Pyrene	mg/kg	0.37	0.72	9.1	0.43	<0.10
Benzo[*a*]anthracene	mg/kg	0.23	0.46	6.3	0.21	<0.10
Chrysene	mg/kg	0.14	0.28	3.1	0.15	<0.10
Benzo[*b*]fluoranthene	mg/kg	0.2	0.5	5.5	0.2	<0.1
Benzo[*k*]fluoranthene	mg/kg	<0.10	0.17	1.6	<0.10	<0.10
Benzo[*a*]pyrene	mg/kg	0.17	0.36	3.6	0.16	<0.10
Indeno[*123-cd*]pyrene	mg/kg	<0.10	0.16	1.5	<0.10	<0.10
Dibenzo[*ah*]anthracene	mg/kg	<0.10	<0.10	0.39	<0.10	<0.10
Benzo[*ghi*]perylene	mg/kg	<0.10	0.19	1.5	<0.10	<0.10
Total PAHs (sum)	mg/kg	<2.77	<4.69	71	<3.30	<2
Nitrobenzene-d5	%	79	98	93	92	81
2-Fluorobiphenyl	%	75	108	109	108	96
p -Terphenyl-*d14*	%	98	101	110	101	99

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PAHs in Soil Our Reference:	UNITS	SE85291-40	SE85291-43	SE85291-46	SE85291-47
Your Reference	----------	I2 (2.0-2.1m)	I2 (5.0-5.1m)	I2 (7.9-8.0m)	DUP13
Sample Matrix	----------	Soil	Soil	Soil	Soil
Date Sampled		8/02/2011	8/02/2011	8/02/2011	8/02/2011
Date Extracted		11/02/2011	11/02/2011	11/02/2011	11/02/2011
Date Analysed		11/02/2011	11/02/2011	11/02/2011	11/02/2011
Naphthalene	mg/kg	1.1	0.41	0.16	1.1
Acenaphthylene	mg/kg	0.90	0.45	0.21	0.64
Acenaphthene	mg/kg	0.15	0.11	<0.10	0.16
Fluorene	mg/kg	1.0	0.27	0.23	1.0
Phenanthrene	mg/kg	6.6	2.7	1.4	6.3
Anthracene	mg/kg	1.8	0.96	0.53	1.7
Fluoranthene	mg/kg	4.7	2.7	1.9	5.0
Pyrene	mg/kg	4.4	2.5	1.9	4.6
Benzo[*a*]anthracene	mg/kg	2.9	1.7	1.2	2.8
Chrysene	mg/kg	1.3	0.81	0.68	1.4
Benzo[*b*]fluoranthene	mg/kg	2.5	2.0	1.4	2.8
Benzo[*k*]fluoranthene	mg/kg	0.60	0.54	0.36	0.78
Benzo[*a*]pyrene	mg/kg	1.7	1.3	0.94	1.8
Indeno[*123-cd*]pyrene	mg/kg	0.73	0.56	0.41	0.73
Dibenzo[*ah*]anthracene	mg/kg	0.18	0.12	0.12	0.22
Benzo[*ghi*]perylene	mg/kg	0.86	0.67	0.46	0.85
Total PAHs (sum)	mg/kg	32	18	<12.00	32
Nitrobenzene-d5	%	96	76	79	81
2-Fluorobiphenyl	%	111	84	99	103
p -Terphenyl-*d14*	%	99	102	101	103

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Metals in Soil by ICP-OES Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ---------- ----------	SE85291-2 BHD1 (0.5-0.6m) Soil 7/02/2011	SE85291-3 DUP9 Soil 7/02/2011	SE85291-10 BHD1 (7.0-7.1m) Soil 7/02/2011	SE85291-12 BHD1 (10.0-10.1m) Soil 7/02/2011	SE85291-20 I1 (3.9-4.0m) Soil 7/02/2011
Date Extracted (Metals)		14/02/2011	11/02/2011	11/02/2011	11/02/2011	11/02/2011
Date Analysed (Metals)		14/02/2011	11/02/2011	11/02/2011	11/02/2011	11/02/2011
Arsenic	mg/kg	36	43	20	6	7
Cadmium	mg/kg	6.0	4.1	1.1	1.3	0.9
Chromium	mg/kg	36	100	17	27	14
Copper	mg/kg	13,000	4,700	380	190	110
Lead	mg/kg	7,400	4,200	570	450	350
Nickel	mg/kg	86	90	20	21	13
Zinc	mg/kg	2,300	1,300	590	480	380

Metals in Soil by ICP-OES Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ---------- ----------	SE85291-22 I1 (7.0-7.1m) Soil 7/02/2011	SE85291-25 I1 (10.0-10.1m) Soil 7/02/2011	SE85291-30 BHI4 (2.0-2.1m) Soil 7/02/2011	SE85291-33 BHI4 (5.0-5.1m) Soil 8/02/2011	SE85291-35 BHI4 (8.2-8.3m) Soil 8/02/2011
Date Extracted (Metals)		11/02/2011	11/02/2011	11/02/2011	11/02/2011	11/02/2011
Date Analysed (Metals)		11/02/2011	11/02/2011	11/02/2011	11/02/2011	11/02/2011
Arsenic	mg/kg	5	11	<3	5	<3
Cadmium	mg/kg	<0.3	0.3	<0.3	<0.3	<0.3
Chromium	mg/kg	10	9.7	8.5	11	5.5
Copper	mg/kg	41	41	9.2	16	2.6
Lead	mg/kg	220	160	28	68	9
Nickel	mg/kg	6.6	4.6	5.7	7.1	3.7
Zinc	mg/kg	83	130	66	51	23

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Metals in Soil by ICP-OES Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ---------- ----------	SE85291-40 I2 (2.0-2.1m) Soil 8/02/2011	SE85291-43 I2 (5.0-5.1m) Soil 8/02/2011	SE85291-46 I2 (7.9-8.0m) Soil 8/02/2011	SE85291-47 DUP13 Soil 8/02/2011
Date Extracted (Metals)		11/02/2011	11/02/2011	11/02/2011	11/02/2011
Date Analysed (Metals)		11/02/2011	11/02/2011	11/02/2011	11/02/2011
Arsenic	mg/kg	<3	6	6	10
Cadmium	mg/kg	1.1	2.2	1.5	18
Chromium	mg/kg	14	13	14	13
Copper	mg/kg	47	200	110	550
Lead	mg/kg	270	890	540	2,900
Nickel	mg/kg	22	10	25	35
Zinc	mg/kg	200	1,900	860	37,000

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Mercury Cold Vapor/Hg Analyser						
Our Reference:	UNITS	SE85291-2	SE85291-3	SE85291-10	SE85291-12	SE85291-20
Your Reference	----------	BHD1 (0.5-0.6m)	DUP9	BHD1 (7.0-7.1m)	BHD1 (10.0-10.1m)	I1 (3.9-4.0m)
Sample Matrix	----------	Soil	Soil	Soil	Soil	Soil
Date Sampled		7/02/2011	7/02/2011	7/02/2011	7/02/2011	7/02/2011
Date Extracted (Mercury)		16/02/2011	16/02/2011	16/02/2011	16/02/2011	16/02/2011
Date Analysed (Mercury)		16/02/2011	16/02/2011	16/02/2011	16/02/2011	16/02/2011
Mercury	mg/kg	0.23	0.18	1.0	0.58	0.75

Mercury Cold Vapor/Hg Analyser						
Our Reference:	UNITS	SE85291-22	SE85291-25	SE85291-30	SE85291-33	SE85291-35
Your Reference	----------	I1 (7.0-7.1m)	I1 (10.0-10.1m)	BHI4 (2.0-2.1m)	BHI4 (5.0-5.1m)	BHI4 (8.2-8.3m)
Sample Matrix	----------	Soil	Soil	Soil	Soil	Soil
Date Sampled		7/02/2011	7/02/2011	7/02/2011	8/02/2011	8/02/2011
Date Extracted (Mercury)		16/02/2011	16/02/2011	16/02/2011	16/02/2011	16/02/2011
Date Analysed (Mercury)		16/02/2011	16/02/2011	16/02/2011	16/02/2011	16/02/2011
Mercury	mg/kg	0.50	0.64	0.09	0.70	<0.05

Mercury Cold Vapor/Hg Analyser					
Our Reference:	UNITS	SE85291-40	SE85291-43	SE85291-46	SE85291-47
Your Reference	----------	I2 (2.0-2.1m)	I2 (5.0-5.1m)	I2 (7.9-8.0m)	DUP13
Sample Matrix	----------	Soil	Soil	Soil	Soil
Date Sampled		8/02/2011	8/02/2011	8/02/2011	8/02/2011
Date Extracted (Mercury)		16/02/2011	16/02/2011	16/02/2011	16/02/2011
Date Analysed (Mercury)		16/02/2011	16/02/2011	16/02/2011	16/02/2011
Mercury	mg/kg	0.23	0.71	2.6	0.51

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Asbestos ID in soil						
Our Reference:	UNITS	SE85291-2	SE85291-10	SE85291-12	SE85291-20	SE85291-22
Your Reference	----------	BHD1 (0.5-0.6m)	BHD1 (7.0-7.1m)	BHD1 (10.0-10.1m)	I1 (3.9-4.0m)	I1 (7.0-7.1m)
Sample Matrix	----------	Soil	Soil	Soil	Soil	Soil
Date Sampled		7/02/2011	7/02/2011	7/02/2011	7/02/2011	7/02/2011
Date Analysed		14/02/2011	14/02/2011	14/02/2011	14/02/2011	14/02/2011
Sample Description		74g Soil,Rocks	62g Soil,Rocks	18g Soil,Rocks	55g Soil,Rocks	58g Soil,Clay
Asbestos ID in soil	-	No asbestos detected Organic fibres detected	Chrysotile asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected

Asbestos ID in soil						
Our Reference:	UNITS	SE85291-25	SE85291-30	SE85291-33	SE85291-35	SE85291-40
Your Reference	----------	I1 (10.0-10.1m)	BHI4 (2.0-2.1m)	BHI4 (5.0-5.1m)	BHI4 (8.2-8.3m)	I2 (2.0-2.1m)
Sample Matrix	----------	Soil	Soil	Soil	Soil	Soil
Date Sampled		7/02/2011	7/02/2011	8/02/2011	8/02/2011	8/02/2011
Date Analysed		14/02/2011	14/02/2011	14/02/2011	14/02/2011	14/02/2011
Sample Description		76g Soil	22g Cement mixture	43g Cement mixture,rocks	20g Cement mixture	24g Soil,Rocks
Asbestos ID in soil	-	No asbestos detected Organic fibres detected	No asbestos detected	No asbestos detected Organic fibres detected	No asbestos detected	No asbestos detected Organic fibres detected

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Asbestos ID in soil Our Reference:	UNITS	SE85291-43	SE85291-46
Your Reference	----------	I2 (5.0-5.1m)	I2 (7.9-8.0m)
Sample Matrix	----------	Soil	Soil
Date Sampled		8/02/2011	8/02/2011
Date Analysed		14/02/2011	14/02/2011
Sample Description		40g Soil,Rocks	45g Soil
Asbestos ID in soil	-	No asbestos detected Organic fibres detected	Chrysotile asbestos detected Organic fibres detected

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BTEX in Water (µg/L) Our Reference: Your Reference Sample Matrix Date Sampled	UNITS --- ---	SE85291-51 TB6 Water 7/02/2011	SE85291-52 TS6 Water 7/02/2011	SE85291-53 TB7 Water 8/02/2011	SE85291-54 TS7 Water 8/02/2011
Date Extracted (BTEX)		11/02/2011	11/02/2011	11/02/2011	11/02/2011
Date Analysed (BTEX)		11/02/2011	11/02/2011	11/02/2011	11/02/2011
Benzene	µg/L	<0.5	97%	<0.5	97%
Toluene	µg/L	<0.5	96%	<0.5	94%
Ethylbenzene	µg/L	<0.5	91%	<0.5	91%
Total Xylenes	µg/L	<1.5	90%	<1.5	88%
Surrogate	%	83	77	97	80

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TRH C6-C9 by P/T ONLY-in water Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ---------- ----------	SE85291-51 TB6 Water 7/02/2011	SE85291-53 TB7 Water 8/02/2011
Date Extracted (TRH C6-C9 PT)		11/02/2011	11/02/2011
Date Analysed (TRH C6-C9 PT)		11/02/2011	11/02/2011
TRH C_6 - C_9 P&T in µg/L	µg/L	<40	<40

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Moisture Our Reference:	UNITS	SE85291-2	SE85291-3	SE85291-10	SE85291-12	SE85291-20
Your Reference	----------	BHD1 (0.5-0.6m)	DUP9	BHD1 (7.0-7.1m)	BHD1 (10.0-10.1m)	I1 (3.9-4.0m)
Sample Matrix	----------	Soil	Soil	Soil	Soil	Soil
Date Sampled		7/02/2011	7/02/2011	7/02/2011	7/02/2011	7/02/2011
Date Analysed (moisture)		11/02/2011	11/02/2011	11/02/2011	11/02/2011	11/02/2011
Moisture	%	10	8	19	16	11

Moisture Our Reference:	UNITS	SE85291-22	SE85291-25	SE85291-30	SE85291-33	SE85291-35
Your Reference	----------	I1 (7.0-7.1m)	I1 (10.0-10.1m)	BHI4 (2.0-2.1m)	BHI4 (5.0-5.1m)	BHI4 (8.2-8.3m)
Sample Matrix	----------	Soil	Soil	Soil	Soil	Soil
Date Sampled		7/02/2011	7/02/2011	7/02/2011	8/02/2011	8/02/2011
Date Analysed (moisture)		11/02/2011	11/02/2011	11/02/2011	11/02/2011	11/02/2011
Moisture	%	18	17	7	19	16

Moisture Our Reference:	UNITS	SE85291-40	SE85291-43	SE85291-46	SE85291-47
Your Reference	----------	I2 (2.0-2.1m)	I2 (5.0-5.1m)	I2 (7.9-8.0m)	DUP13
Sample Matrix	----------	Soil	Soil	Soil	Soil
Date Sampled		8/02/2011	8/02/2011	8/02/2011	8/02/2011
Date Analysed (moisture)		11/02/2011	11/02/2011	11/02/2011	11/02/2011
Moisture	%	6	12	18	17

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Method ID	Methodology Summary
SEO-018	BTEX / C6-C9 Hydrocarbons - Soil samples are extracted with methanol, purged and concentrated by a purge and trap apparatus, and then analysed using GC/MS technique. Water samples undergo the same analysis without the extraction step. Based on USEPA 5030B and 8260B.
SEO-020	Total Recoverable Hydrocarbons - determined by solvent extraction with dichloromethane / acetone for soils and dichloromethane for waters, followed by instrumentation analysis using GC/FID. Where applicable Solid Phase Extraction Manifold technique is used for aliphatic / aromatic fractionation.
SEO-030	Polynuclear Aromatic Hydrocarbons - determined by solvent extraction with dichloromethane / acetone for soils and dichloromethane for waters, followed by instrumentation analysis using GC/MS SIM mode.
SEM-010	Determination of elements by ICP-OES following appropriate sample preparation / digestion process. Based on USEPA 6010C / APHA 21st Edition, 3120B.
SEM-005	Mercury - determined by Cold-Vapour AAS following appropriate sample preparation or digestion process. Based on APHA 21st Edition, 3112B.
AN602	Analysed using in house method AN602 - Qualitative identification of Asbestos Fibres, Synthetic Mineral Fibres and Organic Fibres in bulk samples (including building materials and soils) using Polarised Light Microscopy and Dispersion Staining Techniques. Our NATA Accreditation does not currently cover the identification of Synthetic Mineral Fibres and Organic Fibres, however, according to new NATA requirements, the reporting of these fibres is compulsory if detected.
AN002	Preparation of soils, sediments and sludges undergo analysis by either air drying, compositing, subsampling and 1:5 soil water extraction where required. Moisture content is determined by drying the sample at 105 ± 5°C.

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QUALITY CONTROL BTEX in Soil	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (BTEX)				11/02/11	SE85291-22	10/02/2011 || 10/02/2011	LCS	11/02/11
Date Analysed (BTEX)				12/02/11	SE85291-22	12/02/2011 || 12/02/2011	LCS	12/02/11
Benzene	mg/kg	0.1	SEO-018	<0.1	SE85291-22	<0.1 || <0.1	LCS	105%
Toluene	mg/kg	0.1	SEO-018	<0.1	SE85291-22	<0.1 || <0.1	LCS	102%
Ethylbenzene	mg/kg	0.1	SEO-018	<0.1	SE85291-22	<0.1 || <0.1	LCS	99%
Total Xylenes	mg/kg	0.3	SEO-018	<0.3	SE85291-22	<0.3 || <0.3	LCS	102%
BTEX Surrogate (%)	%	0	SEO-018	100	SE85291-22	93 || 118 || RPD: 24	LCS	112%

QUALITY CONTROL TRH in soil with C6-C9 by P/T	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (TRH C6-C9 PT)				11/02/11	SE85291-22	11/02/2011 || 11/02/2011	LCS	11/02/11
Date Analysed (TRH C6-C9 PT)				12/02/11	SE85291-22	12/02/2011 || 12/02/2011	LCS	12/02/11
TRH C_6 - C_9 P&T	mg/kg	20	SEO-018	<20	SE85291-22	<20 || <20	LCS	114%
Date Extracted (TRH C10-C36)				11/02/11	SE85291-22	11/02/2011 || 11/02/2011	[NR]	[NR]
Date Analysed (TRH C10-C36)				11/02/11	SE85291-22	11/02/2011 || 11/02/2011	[NR]	[NR]
TRH C_{10} - C_{14}	mg/kg	20	SEO-020	<20	SE85291-22	<20 || [N/T]	[NR]	[NR]
TRH C_{15} - C_{28}	mg/kg	50	SEO-020	<50	SE85291-22	<50 || [N/T]	[NR]	[NR]
TRH C_{29} - C_{36}	mg/kg	50	SEO-020	<50	SE85291-22	<50 || [N/T]	[NR]	[NR]

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QUALITY CONTROL PAHs in Soil	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted				11/02/11	SE85291-2	11/02/2011 || 11/02/2011	LCS	11/02/2011
Date Analysed				11/02/11	SE85291-2	11/02/2011 || 11/02/2011	LCS	11/02/2011
Naphthalene	mg/kg	0.1	SEO-030	<0.10	SE85291-2	1.9 || 2.6 || RPD: 31	LCS	97%
Acenaphthylene	mg/kg	0.1	SEO-030	<0.10	SE85291-2	5.7 || 7.1 || RPD: 22	LCS	87%
Acenaphthene	mg/kg	0.1	SEO-030	<0.10	SE85291-2	1.1 || 1.2 || RPD: 9	LCS	101%
Fluorene	mg/kg	0.1	SEO-030	<0.10	SE85291-2	3.2 || 3.7 || RPD: 14	[NR]	[NR]
Phenanthrene	mg/kg	0.1	SEO-030	<0.10	SE85291-2	43 || 30 || RPD: 36	LCS	95%
Anthracene	mg/kg	0.1	SEO-030	<0.10	SE85291-2	14 || 11 || RPD: 24	LCS	100%
Fluoranthene	mg/kg	0.1	SEO-030	<0.10	SE85291-2	51 || 38 || RPD: 29	LCS	97%
Pyrene	mg/kg	0.1	SEO-030	<0.10	SE85291-2	46 || 35 || RPD: 27	LCS	99%
Benzo[*a*]anthracene	mg/kg	0.1	SEO-030	<0.10	SE85291-2	32 || 22 || RPD: 37	[NR]	[NR]
Chrysene	mg/kg	0.1	SEO-030	<0.10	SE85291-2	15 || 12 || RPD: 22	[NR]	[NR]
Benzo[*b*]fluoranthene	mg/kg	0.1	SEO-030	<0.1	SE85291-2	33 || 24 || RPD: 32	[NR]	[NR]
Benzo[*k*]fluoranthene	mg/kg	0.1	SEO-030	<0.10	SE85291-2	9.0 || 10 || RPD: 11	[NR]	[NR]
Benzo[*a*]pyrene	mg/kg	0.1	SEO-030	<0.10	SE85291-2	20 || 15 || RPD: 29	LCS	91%
Indeno[*123-cd*]pyrene	mg/kg	0.1	SEO-030	<0.10	SE85291-2	10 || 8.6 || RPD: 15	[NR]	[NR]
Dibenzo[*ah*]anthracene	mg/kg	0.1	SEO-030	<0.10	SE85291-2	2.7 || 2.3 || RPD: 16	[NR]	[NR]
Benzo[*ghi*]perylene	mg/kg	0.1	SEO-030	<0.10	SE85291-2	11 || 9.2 || RPD: 18	[NR]	[NR]
Total PAHs (sum)	mg/kg	1.6	SEO-030	<2	SE85291-2	300 || 230 || RPD: 26	[NR]	[NR]
Nitrobenzene-d5	%	0	SEO-030	117	SE85291-2	94 || 104 || RPD: 10	LCS	109%
2-Fluorobiphenyl	%	0	SEO-030	100	SE85291-2	113 || 115 || RPD: 2	LCS	98%
p -Terphenyl-*d*14	%	0	SEO-030	93	SE85291-2	108 || 110 || RPD: 2	LCS	96%

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QUALITY CONTROL Metals in Soil by ICP-OES	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (Metals)				11/02/2011	SE85291-2	14/02/2011 || 14/02/2011	LCS	11/02/2011
Date Analysed (Metals)				11/02/2011	SE85291-2	14/02/2011 || 14/02/2011	LCS	11/02/2011
Arsenic	mg/kg	3	SEM-010	<3	SE85291-2	36 || 34 || RPD: 6	LCS	98%
Cadmium	mg/kg	0.3	SEM-010	<0.3	SE85291-2	6.0 || 5.3 || RPD: 12	LCS	98%
Chromium	mg/kg	0.3	SEM-010	<0.3	SE85291-2	36 || 42 || RPD: 15	LCS	100%
Copper	mg/kg	0.5	SEM-010	<0.5	SE85291-2	13000 || 18000 || RPD: 32	LCS	100%
Lead	mg/kg	1	SEM-010	<1	SE85291-2	7400 || 6300 || RPD: 16	LCS	98%
Nickel	mg/kg	0.5	SEM-010	<0.5	SE85291-2	86 || 85 || RPD: 1	LCS	102%
Zinc	mg/kg	0.5	SEM-010	<0.5	SE85291-2	2300 || 2800 || RPD: 20	LCS	99%

QUALITY CONTROL Mercury Cold Vapor/Hg Analyser	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (Mercury)				16/02/2011	SE85291-2	16/02/2011 || 16/02/2011	SE85291-3	16/02/2011
Date Analysed (Mercury)				16/02/2011	SE85291-2	16/02/2011 || 16/02/2011	SE85291-3	16/02/2011
Mercury	mg/kg	0.05	SEM-005	<0.05	SE85291-2	0.23 || 0.24 || RPD: 4	SE85291-3	111%

QUALITY CONTROL Asbestos ID in soil	UNITS	LOR	METHOD	Blank
Date Analysed				[NT]

QUALITY CONTROL BTEX in Water (µg/L)	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (BTEX)				11/02/11	[NT]	[NT]	LCS	11/02/11
Date Analysed (BTEX)				11/02/11	[NT]	[NT]	LCS	11/02/11
Benzene	µg/L	0.5	SEO-018	<0.5	[NT]	[NT]	LCS	97%
Toluene	µg/L	0.5	SEO-018	<0.5	[NT]	[NT]	LCS	97%
Ethylbenzene	µg/L	0.5	SEO-018	<0.5	[NT]	[NT]	LCS	100%
Total Xylenes	µg/L	1.5	SEO-018	<1.5	[NT]	[NT]	LCS	100%

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QUALITY CONTROL BTEX in Water (µg/L)	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Surrogate	%	0	SEO-018	109	[NT]	[NT]	LCS	71%

QUALITY CONTROL TRH C6-C9 by P/T ONLY-in water	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (TRH C6-C9 PT)				11/02/11	[NT]	[NT]	LCS	11/02/11
Date Analysed (TRH C6-C9 PT)				11/02/11	[NT]	[NT]	LCS	11/02/11
TRH C_6 - C_9 P&T in µg/L	µg/L	40	SEO-018	<40	[NT]	[NT]	LCS	130%

QUALITY CONTROL Hold sample-**NO test** required	UNITS	LOR	METHOD	Blank
Sample on HOLD		[NT]		[NT]

QUALITY CONTROL Moisture	UNITS	LOR	METHOD	Blank
Date Analysed (moisture)				[NT]
Moisture	%	1	AN002	<1

QUALITY CONTROL TRH in soil with C6-C9 by P/T	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (TRH C6-C9 PT)		SE85291-2	11/02/2011 || 11/02/2011	[NR]	[NR]
Date Analysed (TRH C6-C9 PT)		SE85291-2	12/02/2011 || 12/02/2011	[NR]	[NR]
Date Extracted (TRH C10-C36)		SE85291-2	11/02/2011 || 11/02/2011	SE85291-3	11/02/11
Date Analysed (TRH C10-C36)		SE85291-2	11/02/2011 || 11/02/2011	SE85291-3	11/02/11
TRH C_{10} - C_{14}	mg/kg	SE85291-2	<20 || <20	SE85291-3	108%
TRH C_{15} - C_{28}	mg/kg	SE85291-2	1000 || 910 || RPD: 9	SE85291-3	89%
TRH C_{29} - C_{36}	mg/kg	SE85291-2	670 || 630 || RPD: 6	SE85291-3	102%

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QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted		SE85291-40	11/02/2011 || 11/02/2011	SE85291-10	11/02/11
Date Analysed		SE85291-40	11/02/2011 || 11/02/2011	SE85291-10	11/02/11
Naphthalene	mg/kg	SE85291-40	1.1 || 1.7 || RPD: 43	SE85291-10	89%
Acenaphthylene	mg/kg	SE85291-40	0.90 || 1.5 || RPD: 50	SE85291-10	69%
Acenaphthene	mg/kg	SE85291-40	0.15 || 0.31 || RPD: 70	SE85291-10	90%
Fluorene	mg/kg	SE85291-40	1.0 || 2.0 || RPD: 67	[NR]	[NR]
Phenanthrene	mg/kg	SE85291-40	6.6 || 17 || RPD: 88	SE85291-10	#
Anthracene	mg/kg	SE85291-40	1.8 || 3.9 || RPD: 74	SE85291-10	#
Fluoranthene	mg/kg	SE85291-40	4.7 || 13 || RPD: 94	SE85291-10	#
Pyrene	mg/kg	SE85291-40	4.4 || 11 || RPD: 86	SE85291-10	#
Benzo[*a*]anthracene	mg/kg	SE85291-40	2.9 || 7.5 || RPD: 88	[NR]	[NR]
Chrysene	mg/kg	SE85291-40	1.3 || 3.9 || RPD: 100	[NR]	[NR]
Benzo[*b*]fluoranthene	mg/kg	SE85291-40	2.5 || 7.6 || RPD: 101	[NR]	[NR]
Benzo[*k*]fluoranthene	mg/kg	SE85291-40	0.60 || 2.3 || RPD: 117	[NR]	[NR]
Benzo[*a*]pyrene	mg/kg	SE85291-40	1.7 || 5.3 || RPD: 103	SE85291-10	#
Indeno[*123-cd*]pyrene	mg/kg	SE85291-40	0.73 || 2.9 || RPD: 120	[NR]	[NR]
Dibenzo[*ah*]anthracene	mg/kg	SE85291-40	0.18 || 0.70 || RPD: 118	[NR]	[NR]
Benzo[*ghi*]perylene	mg/kg	SE85291-40	0.86 || 3.2 || RPD: 115	[NR]	[NR]
Total PAHs (sum)	mg/kg	SE85291-40	32 || 84 || RPD: 90	[NR]	[NR]
Nitrobenzene-d5	%	SE85291-40	96 || 104 || RPD: 8	SE85291-10	104%
2-Fluorobiphenyl	%	SE85291-40	111 || 115 || RPD: 4	SE85291-10	104%
p -Terphenyl-*d14*	%	SE85291-40	99 || 108 || RPD: 9	SE85291-10	98%

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QUALITY CONTROL Metals in Soil by ICP-OES	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date Extracted (Metals)		SE85291-43	11/02/2011 || 11/02/2011
Date Analysed (Metals)		SE85291-43	11/02/2011 || 11/02/2011
Arsenic	mg/kg	SE85291-43	6 || 5 || RPD: 18
Cadmium	mg/kg	SE85291-43	2.2 || 2.4 || RPD: 9
Chromium	mg/kg	SE85291-43	13 || 11 || RPD: 17
Copper	mg/kg	SE85291-43	200 || 270 || RPD: 30
Lead	mg/kg	SE85291-43	890 || 810 || RPD: 9
Nickel	mg/kg	SE85291-43	10 || 8.9 || RPD: 12
Zinc	mg/kg	SE85291-43	1900 || 2200 || RPD: 15

QUALITY CONTROL Mercury Cold Vapor/Hg Analyser	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date Extracted (Mercury)		SE85291-43	16/02/2011 || 16/02/2011
Date Analysed (Mercury)		SE85291-43	16/02/2011 || 16/02/2011
Mercury	mg/kg	SE85291-43	0.71 || 0.62 || RPD: 14

QUALITY CONTROL TRH in soil with C6-C9 by P/T	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Date Extracted (TRH C6-C9 PT)		SE85291-40	11/02/2011 || 11/02/2011
Date Analysed (TRH C6-C9 PT)		SE85291-40	12/02/2011 || 12/02/2011
TRH C_6 - C_9 P&T	mg/kg	SE85291-40	<20 || [N/T]
Date Extracted (TRH C10-C36)		SE85291-40	11/02/2011 || 11/02/2011
Date Analysed (TRH C10-C36)		SE85291-40	11/02/2011 || 11/02/2011

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QUALITY CONTROL TRH in soil with C6-C9 by P/T	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
TRH C_{10} - C_{14}	mg/kg	SE85291-40	<20 || <20
TRH C_{15} - C_{28}	mg/kg	SE85291-40	110 || 190 || RPD: 53
TRH C_{29} - C_{36}	mg/kg	SE85291-40	71 || 94 || RPD: 28

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Result Codes

[INS] : Insufficient Sample for this test
[NR] : Not Requested
[NT] : Not tested
[LOR] : Limit of reporting
[RPD] : Relative Percentage Difference
* : Not part of NATA Accreditation
[N/A] : Not Applicable

Report Comments

#PAH_S-Spikes not reported due to sample matrix interference.
TRH/PAH - Duplicate not recovered within acceptance criteria due to inhomogeneous sample.
Sampled by the client

Even after disintegration it can be very difficult, or impossible, to detect the presence of asbestos in some asbestos-containing bulk materials using polarised light microscopy.
This is due to the low grade or small length or diameter of asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials.

No respirable fibres detected using trace analysis technique.
Sample # 10 : 1-3mm length fibre bundles found loose in sample.
Sample # 46 : 1-3mm length fibre bundles found loose in sample and in 45x35mm fibrous material.
Sample # 10,46: >0.1g/kg
Asbestos analysed by Approved Identifier Ravee Sivasubramaniam.
Samples analysed as received. Solid samples expressed on a dry weight basis.
Date Organics extraction commenced:
NATA Corporate Accreditation No. 2562, Site No 4354
Note: Test results are not corrected for recovery (excluding Air-toxics and Dioxins/Furans*)
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Quality Control Protocol

Method Blank: An analyte free matrix to which all reagents are added in the same volume or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. A method blank is prepared every 20 samples.
Duplicate: A separate portion of a sample being analysed that is treated the same as the other samples in the batch. One duplicate is processed at least every 10 samples.
Surrogate Spike: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are added to samples before extraction to monitor extraction efficiency and percent recovery in each sample.
Internal Standard: Added to all samples requiring analysis for organics (where relevant) or metals by ICP after the extraction/digestion process; the compounds/elements serve to give a standard of retention time and/or response, which is invariant from run-to-run with the instruments.
Laboratory Control Sample: A known matrix spiked with compound(s) representative of the target analytes. It is used to document laboratory performance. When the results of the matrix spike analysis indicates a potential problem due to the sample matrix itself, the LCS results are used to verify that the laboratory can perform the analysis in a clean matrix.
Matrix Spike: An aliquot of sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

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Quality Acceptance Criteria

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: http://www.au.sgs.com/sgs-mp-au-env-qu-022-qa-qc-plan-en-09.pdf

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ANALYTICAL REPORT

21 February 2011

Coffey Environments Pty Ltd
Level 1, 3 Rider Boulevard
RHODES
NSW 2138

Attention: **Nalin De Silva**

Your Reference: ENAURHOD04108AA - Green Square-Additional Analysis

Our Reference: SE85291B Samples: 3 Soils
Received: 08/2/11

Preliminary Report Sent: Not Issued

These samples were analysed in accordance with your written instructions.

For and on Behalf of:
SGS ENVIRONMENTAL SERVICES

Sample Receipt:	Angela Mamalicos	AU.SampleReceipt.Sydney@sgs.com
Production Manager:	Huong Crawford	Huong.Crawford@sgs.com

Results Approved and/or Authorised by:

Edward Ibrahim
Laboratory Manager

Ly Kim Ha
Organics Signatory

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PAHs in TCLP (USEPA 1311) Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ---------- ----------	SE85291B-2 BHD1 (0.5-0.6m) Soil 7/02/2011	SE85291B-30 BHI4 (2.0-2.1m) Soil 7/02/2011
Date Extracted (TCLP Preparation)		18/02/2011	18/02/2011
pH of soil for fluid# determ.	pH units	6.78	9.01
Extraction fluid used	-	1	1
pH of soil for fluid # determ. (acid)	pH units	1.62	1.80
pH of final Leachate	pH units	5.23	5.10
Date Extracted		18/02/2011	18/02/2011
Date Analysed		18/02/2011	18/02/2011
Benzo[a]pyrene	µg/L	<0.50	<0.50
Nitrobenzene-d5	%	117	129
2-Fluorobiphenyl	%	98	115
p -Terphenyl-*d14*	%	111	123

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Metals in TCLP Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ---------- ----------	SE85291B-2 BHD1 (0.5-0.6m) Soil 7/02/2011	SE85291B-40 I2 (2.0-2.1m) Soil 8/02/2011
Date Extracted (TCLP Preparation)		[NA]	18/02/2011
pH of soil for fluid# determ.	pH units	[NA]	8.27
pH of soil for fluid # determ. (acid)	pH units	[NA]	1.76
Extraction fluid used	-	[NA]	1
pH of final Leachate	pH units	[NA]	6.33
Date Extracted (Metals)		21/02/2011	21/02/2011
Date Analysed (Metals)		21/02/2011	21/02/2011
Lead	mg/L	80	0.21

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Method ID	Methodology Summary
AN006	Toxicity Characteristic Leaching Procedure (TCLP) - Preparation of leachates for assessing the mobility of both organic and inorganic contaminants present in liquid, solid, and multiphase wastes. Based on USEPA 1311. For volatile analytes, Zero-Headspace Extraction Vessel (ZHE) is used. This method also meets the requirements of Australian Standard Leaching Procedure (ASLP) AS 4439.3-1997 Part 3.
AN101	pH - Measured using pH meter and electrode based on APHA 21st Edition, 4500-H+. For water analyses the results reported are indicative only as the sample holding time requirement specified in APHA was not met (APHA requires that the pH of the samples are to be measured within 15 minutes after sampling).
SEO-030	Polynuclear Aromatic Hydrocarbons - determined by solvent extraction with dichloromethane / acetone for soils and dichloromethane for waters, followed by instrumentation analysis using GC/MS SIM mode. Total PAH is the sum of all positive PAH(s) assuming non-quantifiable PAH(s) (<LOR) do not contribute to the total. LOR for Total PAH is based on 50% of the sum of 16 PAH LORs.
SEM-010	Determination of elements by ICP-OES following appropriate sample preparation / digestion process. Based on USEPA 6010C / APHA 21st Edition, 3120B.

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QUALITY CONTROL PAHs in TCLP (USEPA 1311)	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
pH of soil for fluid# determ.	pH units	0	AN101	0.00	[NT]	[NT]	[NR]	[NR]
Extraction fluid used	-		AN006	[NT]	[NT]	[NT]	[NR]	[NR]
pH of soil for fluid # determ. (acid)	pH units	0	AN101	0.00	[NT]	[NT]	[NR]	[NR]
pH of final Leachate	pH units	0	AN101	0.00	[NT]	[NT]	[NR]	[NR]
Date Extracted				18/02/2011	[NT]	[NT]	LCS	18/02/2011
Date Analysed				18/02/2011	[NT]	[NT]	LCS	18/02/2011
Benzo[a]pyrene	µg/L	0.5	SEO-030	<0.50	[NT]	[NT]	LCS	100%
Nitrobenzene-d5	%	0	SEO-030	92	[NT]	[NT]	LCS	107%
2-Fluorobiphenyl	%	0	SEO-030	124	[NT]	[NT]	LCS	98%
p -Terphenyl-*d* 14	%	0	SEO-030	122	[NT]	[NT]	LCS	95%

QUALITY CONTROL Metals in TCLP	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
pH of soil for fluid# determ.	pH units	0	AN101	0.00	[NT]	[NT]	[NR]	[NR]
pH of soil for fluid # determ. (acid)	pH units	0	AN101	0.00	[NT]	[NT]	[NR]	[NR]
Extraction fluid used	-		AN006	[NT]	[NT]	[NT]	[NR]	[NR]
pH of final Leachate	pH units	0	AN101	0.00	[NT]	[NT]	[NR]	[NR]
Date Extracted (Metals)				21/02/2011	[NT]	[NT]	LCS	21/02/2011
Date Analysed (Metals)				21/02/2011	[NT]	[NT]	LCS	21/02/2011
Lead	mg/L	0.02	SEM-010	<0.02	[NT]	[NT]	LCS	97%

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Result Codes

[INS] : Insufficient Sample for this test
[NR] : Not Requested
[NT] : Not tested
[LOR] : Limit of reporting
[RPD] : Relative Percentage Difference
* : Not part of NATA Accreditation
[N/A] : Not Applicable

Report Comments

Samples analysed as received. Solid samples expressed on a dry weight basis.
Date Organics extraction commenced:
NATA Corporate Accreditation No. 2562, Site No 4354
Note: Test results are not corrected for recovery (excluding Air-toxics and Dioxins/Furans*)
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Quality Control Protocol

Method Blank: An analyte free matrix to which all reagents are added in the same volume or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. A method blank is prepared every 20 samples.
Duplicate: A separate portion of a sample being analysed that is treated the same as the other samples in the batch. One duplicate is processed at least every 10 samples.
Surrogate Spike: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are added to samples before extraction to monitor extraction efficiency and percent recovery in each sample.
Internal Standard: Added to all samples requiring analysis for organics (where relevant) or metals by ICP after the extraction/digestion process; the compounds/elements serve to give a standard of retention time and/or response, which is invariant from run-to-run with the instruments.
Laboratory Control Sample: A known matrix spiked with compound(s) representative of the target analytes. It is used to document laboratory performance. When the results of the matrix spike analysis indicates a potential problem due to the sample matrix itself, the LCS results are used to verify that the laboratory can perform the analysis in a clean matrix.
Matrix Spike: An aliquot of sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Quality Acceptance Criteria

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: http://www.au.sgs.com/sgs-mp-au-env-qu-022-qa-qc-plan-en-09.pdf

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ANALYTICAL REPORT

18 February 2011

Coffey Environments Pty Ltd
Level 1, 3 Rider Boulevard
RHODES
NSW 2138

Attention: **Nalin de Silva**

Your Reference: ENAURHOD04108AA - Green Square

Our Reference: SE85414 Samples: 9 Waters
Received: 14/2/11

Preliminary Report Sent: 17/02/11

These samples were analysed in accordance with your written instructions.

For and on Behalf of:
SGS ENVIRONMENTAL SERVICES

Sample Receipt:	Angela Mamalicos	AU.SampleReceipt.Sydney@sgs.com
Production Manager:	Huong Crawford	Huong.Crawford@sgs.com

Results Approved and/or Authorised by:

Dong Liang
Quality Manager

Ly Kim Ha
Organics Signatory

Huong Crawford
Metals Signatory

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BTEX in Water (µg/L) Our Reference: Your Reference Sample Matrix Location Date Sampled	UNITS ---------- ----------	SE85414-1 TB1 Water N/A 14/02/2011	SE85414-2 BHI2 Water BHI2 14/02/2011	SE85414-3 BHI3 Water BHI3 14/02/2011	SE85414-4 BHI4 Water BHI4 14/02/2011	SE85414-5 BHP1 Water BHP1 14/02/2011
Date Extracted (BTEX)		16/02/2011	16/02/2011	16/02/2011	16/02/2011	16/02/2011
Date Analysed (BTEX)		16/02/2011	16/02/2011	16/02/2011	16/02/2011	16/02/2011
Benzene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total Xylenes	µg/L	<1.5	<1.5	3.4	<1.5	<1.5
Surrogate	%	90	102	105	106	99

BTEX in Water (µg/L) Our Reference: Your Reference Sample Matrix Location Date Sampled	UNITS ---------- ----------	SE85414-6 BHP5 Water BHP5 14/02/2011	SE85414-7 BHP8 Water BHP8 14/02/2011	SE85414-8 BHD2 Water BHD2 14/02/2011	SE85414-9 QC1 Water N/A 14/02/2011
Date Extracted (BTEX)		16/02/2011	16/02/2011	16/02/2011	16/02/2011
Date Analysed (BTEX)		16/02/2011	16/02/2011	16/02/2011	16/02/2011
Benzene	µg/L	<0.5	<0.5	<0.5	<0.5
Toluene	µg/L	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	µg/L	<0.5	<0.5	<0.5	<0.5
Total Xylenes	µg/L	<1.5	<1.5	<1.5	<1.5
Surrogate	%	107	99	102	97

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TRH C6-C9 by P/T ONLY-in water		
Our Reference:	UNITS	SE85414-1
Your Reference	----------	TB1
Sample Matrix	----------	Water
Location		N/A
Date Sampled		14/02/2011
Date Extracted (TRH C6-C9 PT)		16/02/2011
Date Analysed (TRH C6-C9 PT)		16/02/2011
TRH C_6 - C_9 P&T in µg/L	µg/L	<40

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TRH in water with C6-C9 by P/T						
Our Reference:	UNITS	SE85414-2	SE85414-3	SE85414-4	SE85414-5	SE85414-6
Your Reference	----------	BHI2	BHI3	BHI4	BHP1	BHP5
Sample Matrix	----------	Water	Water	Water	Water	Water
Location		BHI2	BHI3	BHI4	BHP1	BHP5
Date Sampled		14/02/2011	14/02/2011	14/02/2011	14/02/2011	14/02/2011
Date Extracted (TRH C6-C9 PT)		16/02/2011	16/02/2011	16/02/2011	16/02/2011	16/02/2011
Date Analysed (TRH C6-C9 PT)		16/02/2011	16/02/2011	16/02/2011	16/02/2011	16/02/2011
TRH C_6 - C_9 P&T in µg/L	µg/L	<40	<40	<40	<40	<40
Date Extracted (TRH C10-C36)		15/02/2011	15/02/2011	15/02/2011	15/02/2011	15/02/2011
Date Analysed (TRH C10-C36)		15/02/2011	15/02/2011	15/02/2011	15/02/2011	15/02/2011
TRH C_{10} - C_{14}	µg/L	<100	1,330	<100	<100	<100
TRH C_{15} - C_{28}	µg/L	<200	1,110	<200	3,150	<200
TRH C_{29} - C_{36}	µg/L	<200	<200	<200	16,200	<200

TRH in water with C6-C9 by P/T				
Our Reference:	UNITS	SE85414-7	SE85414-8	SE85414-9
Your Reference	----------	BHP8	BHD2	QC1
Sample Matrix	----------	Water	Water	Water
Location		BHP8	BHD2	N/A
Date Sampled		14/02/2011	14/02/2011	14/02/2011
Date Extracted (TRH C6-C9 PT)		16/02/2011	16/02/2011	16/02/2011
Date Analysed (TRH C6-C9 PT)		16/02/2011	16/02/2011	16/02/2011
TRH C_6 - C_9 P&T in µg/L	µg/L	<40	<40	<40
Date Extracted (TRH C10-C36)		15/02/2011	15/02/2011	15/02/2011
Date Analysed (TRH C10-C36)		15/02/2011	15/02/2011	15/02/2011
TRH C_{10} - C_{14}	µg/L	<100	<100	<100
TRH C_{15} - C_{28}	µg/L	<200	1,720	<200
TRH C_{29} - C_{36}	µg/L	<200	2,720	<200

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Inorganics						
Our Reference:	UNITS	SE85414-2	SE85414-3	SE85414-4	SE85414-5	SE85414-6
Your Reference	----------	BHI2	BHI3	BHI4	BHP1	BHP5
Sample Matrix	----------	Water	Water	Water	Water	Water
Location		BHI2	BHI3	BHI4	BHP1	BHP5
Date Sampled		14/02/2011	14/02/2011	14/02/2011	14/02/2011	14/02/2011
Date Extracted (Ammonia)		17/02/2011	17/02/2011	17/02/2011	17/02/2011	17/02/2011
Date Analysed (Ammonia)		17/02/2011	17/02/2011	17/02/2011	17/02/2011	17/02/2011
Ammonia as N	mg/L	0.49	4.5	6.7	0.27	0.64

Inorganics				
Our Reference:	UNITS	SE85414-7	SE85414-8	SE85414-9
Your Reference	----------	BHP8	BHD2	QC1
Sample Matrix	----------	Water	Water	Water
Location		BHP8	BHD2	N/A
Date Sampled		14/02/2011	14/02/2011	14/02/2011
Date Extracted (Ammonia)		17/02/2011	17/02/2011	17/02/2011
Date Analysed (Ammonia)		17/02/2011	17/02/2011	17/02/2011
Ammonia as N	mg/L	0.45	0.80	0.43

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Trace HM (ICP-MS)-Dissolved Our Reference: Your Reference Sample Matrix Location Date Sampled	UNITS ---------- ----------	SE85414-2 BHI2 Water BHI2 14/02/2011	SE85414-3 BHI3 Water BHI3 14/02/2011	SE85414-4 BHI4 Water BHI4 14/02/2011	SE85414-5 BHP1 Water BHP1 14/02/2011	SE85414-6 BHP5 Water BHP5 14/02/2011
Date Extracted (Metals-ICPMS)		16/02/2011	16/02/2011	16/02/2011	16/02/2011	16/02/2011
Date Analysed (Metals-ICPMS)		16/02/2011	16/02/2011	16/02/2011	16/02/2011	16/02/2011
Arsenic	µg/L	<1	2	2	<1	4
Cadmium	µg/L	0.5	<0.1	<0.1	0.2	<0.1
Chromium	µg/L	<1	<1	<1	<1	<1
Copper	µg/L	2	<1	1	2	1
Lead	µg/L	1	7	2	<1	<1
Nickel	µg/L	49	1	2	<1	7
Zinc	µg/L	660	130	390	220	260

Trace HM (ICP-MS)-Dissolved Our Reference: Your Reference Sample Matrix Location Date Sampled	UNITS ---------- ----------	SE85414-7 BHP8 Water BHP8 14/02/2011	SE85414-8 BHD2 Water BHD2 14/02/2011	SE85414-9 QC1 Water N/A 14/02/2011
Date Extracted (Metals-ICPMS)		16/02/2011	16/02/2011	16/02/2011
Date Analysed (Metals-ICPMS)		16/02/2011	16/02/2011	16/02/2011
Arsenic	µg/L	1	8	1
Cadmium	µg/L	0.2	<0.1	<0.1
Chromium	µg/L	<1	<1	<1
Copper	µg/L	<1	<1	<1
Lead	µg/L	<1	<1	<1
Nickel	µg/L	2	6	2
Zinc	µg/L	550	190	580

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Mercury Cold Vapor/Hg Analyser Our Reference: Your Reference Sample Matrix Location Date Sampled	UNITS ---------- ----------	SE85414-2 BHI2 Water BHI2 14/02/2011	SE85414-3 BHI3 Water BHI3 14/02/2011	SE85414-4 BHI4 Water BHI4 14/02/2011	SE85414-5 BHP1 Water BHP1 14/02/2011	SE85414-6 BHP5 Water BHP5 14/02/2011
Date Extracted (Mercury)		18/02/2011	18/02/2011	18/02/2011	18/02/2011	18/02/2011
Date Analysed (Mercury)		18/02/2011	18/02/2011	18/02/2011	18/02/2011	18/02/2011
Mercury (Dissolved)	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001

Mercury Cold Vapor/Hg Analyser Our Reference: Your Reference Sample Matrix Location Date Sampled	UNITS ---------- ----------	SE85414-7 BHP8 Water BHP8 14/02/2011	SE85414-8 BHD2 Water BHD2 14/02/2011	SE85414-9 QC1 Water N/A 14/02/2011
Date Extracted (Mercury)		18/02/2011	18/02/2011	18/02/2011
Date Analysed (Mercury)		18/02/2011	18/02/2011	18/02/2011
Mercury (Dissolved)	mg/L	<0.0001	<0.0001	<0.0001

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Method ID	Methodology Summary
SEO-018	BTEX / C6-C9 Hydrocarbons - Soil samples are extracted with methanol, purged and concentrated by a purge and trap apparatus, and then analysed using GC/MS technique. Water samples undergo the same analysis without the extraction step. Based on USEPA 5030B and 8260B.
SEO-020	Total Recoverable Hydrocarbons - determined by solvent extraction with dichloromethane / acetone for soils and dichloromethane for waters, followed by instrumentation analysis using GC/FID. Where applicable Solid Phase Extraction Manifold technique is used for aliphatic / aromatic fractionation.
SEI-037	Ammonia - Determined by salicylate colourimetric method using Discrete Analyser.
AN318	Determination of elements at trace level in waters by ICP-MS technique, in accordance with USEPA 6020A.
SEM-005	Mercury - determined by Cold-Vapour AAS following appropriate sample preparation or digestion process. Based on APHA 21st Edition, 3112B.

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QUALITY CONTROL BTEX in Water (µg/L)	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (BTEX)				16/02/11	SE85414-3	16/02/2011 || 16/02/2011	SE85414-1	16/02/11
Date Analysed (BTEX)				16/02/11	SE85414-3	16/02/2011 || 16/02/2011	SE85414-1	16/02/11
Benzene	µg/L	0.5	SEO-018	<0.5	SE85414-3	<0.5 || <0.5	SE85414-1	98%
Toluene	µg/L	0.5	SEO-018	<0.5	SE85414-3	<0.5 || <0.5	SE85414-1	97%
Ethylbenzene	µg/L	0.5	SEO-018	<0.5	SE85414-3	<0.5 || <0.5	SE85414-1	95%
Total Xylenes	µg/L	1.5	SEO-018	<1.5	SE85414-3	3.4 || 3.6 || RPD: 6	SE85414-1	97%
Surrogate	%	0	SEO-018	116	SE85414-3	105 || 105 || RPD: 0	SE85414-1	73%

QUALITY CONTROL TRH C6-C9 by P/T ONLY-in water	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (TRH C6-C9 PT)				16/02/11	[NT]	[NT]	SE85414-1	16/02/11
Date Analysed (TRH C6-C9 PT)				16/02/11	[NT]	[NT]	SE85414-1	16/02/11
TRH C_6 - C_9 P&T in µg/L	µg/L	40	SEO-018	<40	[NT]	[NT]	SE85414-1	120%

QUALITY CONTROL TRH in water with C6-C9 by P/T	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (TRH C6-C9 PT)				16/02/11	SE85414-3	16/02/2011 || 16/02/2011	LCS	16/02/11
Date Analysed (TRH C6-C9 PT)				16/02/11	SE85414-3	16/02/2011 || 16/02/2011	LCS	16/02/11
TRH C_6 - C_9 P&T in µg/L	µg/L	40	SEO-018	<40	SE85414-3	<40 || <40	LCS	128%
Date Extracted (TRH C10-C36)				15/02/11	SE85414-3	15/02/2011 || 15/02/2011	[NR]	[NR]
Date Analysed (TRH C10-C36)				15/02/11	SE85414-3	15/02/2011 || 15/02/2011	[NR]	[NR]
TRH C_{10} - C_{14}	µg/L	100	SEO-020	<100	SE85414-3	1330 || 1100 || RPD: 19	[NR]	[NR]
TRH C_{15} - C_{28}	µg/L	200	SEO-020	<200	SE85414-3	1110 || 967 || RPD: 14	[NR]	[NR]
TRH C_{29} - C_{36}	µg/L	200	SEO-020	<200	SE85414-3	<200 || <200	[NR]	[NR]

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QUALITY CONTROL Inorganics	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Ammonia as N	mg/L	0.01	SEI-037	<0.01	SE85414-2	0.49 || 0.52 || RPD: 6	LCS	106%

QUALITY CONTROL Trace HM (ICP-MS)-Dissolved	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (Metals-ICPMS)				16/02/2011	SE85414-2	16/02/2011 || 16/02/2011	SE85414-3	16/02/2011
Date Analysed (Metals-ICPMS)				16/02/2011	SE85414-2	16/02/2011 || 16/02/2011	SE85414-3	16/02/2011
Arsenic	µg/L	1	AN318	<1	SE85414-2	<1 || <1	SE85414-3	100%
Cadmium	µg/L	0.1	AN318	<0.1	SE85414-2	0.5 || 0.5 || RPD: 0	SE85414-3	85%
Chromium	µg/L	1	AN318	<1	SE85414-2	<1 || <1	SE85414-3	88%
Copper	µg/L	1	AN318	<1	SE85414-2	2 || 2 || RPD: 0	SE85414-3	80%
Lead	µg/L	1	AN318	<1	SE85414-2	1 || 1 || RPD: 0	SE85414-3	91%
Nickel	µg/L	1	AN318	<1	SE85414-2	49 || 49 || RPD: 0	SE85414-3	92%
Zinc	µg/L	1	AN318	<1	SE85414-2	660 || 650 || RPD: 2	SE85414-3	92%

QUALITY CONTROL Mercury Cold Vapor/Hg Analyser	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (Mercury)				18/02/2011	SE85414-2	18/02/2011 || 18/02/2011	SE85414-3	18/02/2011
Date Analysed (Mercury)				18/02/2011	SE85414-2	18/02/2011 || 18/02/2011	SE85414-3	18/02/2011
Mercury (Dissolved)	mg/L	0.0001	SEM-005	<0.0001	SE85414-2	<0.0001 || <0.0001	SE85414-3	102%

QUALITY CONTROL TRH in water with C6-C9 by P/T	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Extracted (TRH C6-C9 PT)		[NT]	[NT]	[NR]	[NR]
Date Analysed (TRH C6-C9 PT)		[NT]	[NT]	[NR]	[NR]
TRH C_6 - C_9 P&T in µg/L	µg/L	[NT]	[NT]	[NR]	[NR]
Date Extracted (TRH C10-C36)		[NT]	[NT]	SE85414-9	15/02/11

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QUALITY CONTROL TRH in water with C6-C9 by P/T	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Date Analysed (TRH C10-C36)		[NT]	[NT]	SE85414-9	15/02/11
TRH C_{10} - C_{14}	µg/L	[NT]	[NT]	SE85414-9	91%
TRH C_{15} - C_{28}	µg/L	[NT]	[NT]	SE85414-9	99%
TRH C_{29} - C_{36}	µg/L	[NT]	[NT]	SE85414-9	105%

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Result Codes

[INS] : Insufficient Sample for this test
[NR] : Not Requested
[NT] : Not tested
[LOR] : Limit of reporting
[RPD] : Relative Percentage Difference
* : Not part of NATA Accreditation
[N/A] : Not Applicable

Report Comments

Samples analysed as received. Solid samples expressed on a dry weight basis.
Date Organics extraction commenced:
NATA Corporate Accreditation No. 2562, Site No 4354
Note: Test results are not corrected for recovery (excluding Air-toxics and Dioxins/Furans*)
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Quality Control Protocol

Method Blank: An analyte free matrix to which all reagents are added in the same volume or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. A method blank is prepared every 20 samples.
Duplicate: A separate portion of a sample being analysed that is treated the same as the other samples in the batch. One duplicate is processed at least every 10 samples.
Surrogate Spike: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are added to samples before extraction to monitor extraction efficiency and percent recovery in each sample.
Internal Standard: Added to all samples requiring analysis for organics (where relevant) or metals by ICP after the extraction/digestion process; the compounds/elements serve to give a standard of retention time and/or response, which is invariant from run-to-run with the instruments.
Laboratory Control Sample: A known matrix spiked with compound(s) representative of the target analytes. It is used to document laboratory performance. When the results of the matrix spike analysis indicates a potential problem due to the sample matrix itself, the LCS results are used to verify that the laboratory can perform the analysis in a clean matrix.
Matrix Spike: An aliquot of sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Quality Acceptance Criteria

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: http://www.au.sgs.com/sgs-mp-au-env-qu-022-qa-qc-plan-en-09.pdf

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Quality, Service, Support

Report Date : 11/04/2007
Report Time : 12:03:09PM

Sample **Receipt** Notice (SRN) for **E031326**

Client Details		Laboratory Reference Information	
Client Name:	HLA - Envirosciences Pty Limited	**Please have this information ready when contacting Labmark.**	
Client Phone:	02 8484 8999		
Client Fax:	02 8484 8989	**Laboratory Report:**	**E031326**
Contact Name:	Kumar Srinivasan	**Quotation Number:**	Q0241.ES
Contact Email:	ksrinivasan@hla-enviro.com.au	**Laboratory Address:**	Unit 1, 8 Leighton Pl. Asquith NSW 2077
Client Address:	PO Box 726 Pymble NSW 2073	**Phone:**	61 2 9476 6533
		Fax:	61 2 9476 8219
Project Name:	Green Square	**Sample Receipt Contact:**	Jakleen El Galada
Project Number:	S4075802	**Email:**	jakleen.galada@labmark.com.au
CoC Number:	- Not provided -	**Reporting Contact:**	Jyothi Lal
Purchase Order:	143499	**Email:**	jyothi.lal@labmark.com.au
Surcharge:	No surcharge applied (results by 6:30pm on due date)		
Sample Matrix:	SOIL		
Date Sampled (earliest date):	05/04/2007	**NATA Accreditation:**	13542
Date Samples Received:	10/04/2007	**TGA GMP License:**	185-336 (Sydney)
Date Sample Receipt Notice issued:	11/04/2007	**APVMA License:**	6105 (Sydney)
Date Preliminary Report Due:	17/04/2007	**AQIS Approval:**	NO356 (Sydney)
		AQIS Entry Permit:	200409998 (Sydney)

Sample Condition:
COC received with samples. Report number and lab ID's defined on COC.
Samples received in good order .
Samples received with cooling media: Crushed ice .
Samples received chilled.
Security seals not required. Direct Labmark's custody taken .
Sample container & chemical preservation suitable .

Comments:

Holding Times:
Date received allows for sufficient time to meet Technical Holding Times.

Preservation:
Chemical preservation of samples satisfactory for requested analytes.

Important Notes:
LabMark shall responsibly dispose of spent customer soil and water samples which includes the disintegration of the sample label. A sample disposal fee of $1.00 is applicable on all samples received by the laboratory regardless of whether they have undergone analytical testing. Sample disposal of environmental samples shall be 31 days (water) and 3 months (soil, HN03 preserved samples) after laboratory receipt, unless otherwise requested in writing by the client. Samples requested to be held in non-refrigerated storage shall incur $5.00/ sample/ 3 months. Additional refrigerated storage shall incur $30/ sample/ 3 months. Combination prices apply only if requested. Transfer of report ownership from LabMark to the client shall occur once full and final payment has been settled and verified. All report copies may be retracted where full payment does not occur within the agreed settlement period.

Analysis comments:

Subcontracted Analyses:

Thank you for choosing Labmark to analyse your project samples.
Additional information on www.labmark.com.au

Report Date : 11/04/2007
Report Time : 12:03:09PM

Quality, Service, Support

Sample **Receipt** Notice (SRN) for **E031326**

The table below represents LabMark's understanding and interpretation of the customer supplied sample COC request. Please confirm that your COC request has been entered correctly. Due to THT and TAT requirements, testing shall commence immediately as per this table, unless the customer intervenes with a correction prior to testing.

GRID REVIEW TABLE

No.	Date	Depth	Client Sample ID	Requested Analysis: BTEX by P&T	Acid extractable mercury	HOLD ON HOLD	Acid extractable metals (M7)	Moisture	Polyaromatic Hydrocarbons (PAH)	PREP Not Reported	Petroleum Hydrocarbons (TPH)	Volatile TPH by P&T (vTPH)											
81902	05/04	0.1-0.3	BH15	●	●		●	●	●	●	●	●											
81903	05/04	1.5-2.0	BH15			●																	
81904	05/04	3.0-3.2	BH15			●																	
			Totals:	1	1	2	1	1	1	1	1	1											

Thank you for choosing Labmark to analyse your project samples.
Additional information on www.labmark.com.au

LabMark

Quality, Service, Support

Report Date : 11/04/2007
Report Time : 12:03:09PM

Sample **Receipt** Notice (SRN) for **E031326**

No.	Date	Depth	Client Sample ID	Requested Analysis: M8 - M7-T_S																		
81902	05/04	0.1-0.3	BH15	●																		
			Totals:	1																		

Thank you for choosing Labmark to analyse your project samples.
Additional information on www.labmark.com.au

10-APR-2007 TUE 13:54 HLA ENVIROSCIENCES FAX NO. 84848989 P. 03

HLA

CHAIN OF CUSTODY

HLA - Enviroscience Pty Limited - Sydney
Level 5, 828 Pacific Hwy
PO Box 726 Pymble NSW 2073
Gordon NSW 2072 Australia
Tel: 61 2 8484 8999
Fax: 61 2 8484 8989
E-mail: mail@syd.hla-enviro.com.au

Laboratory Details
Lab Name: LABMARK
Lab Address: ASQUITH
Contact Name:
Lab. Ref:
Tel:
Fax
Preliminary Report by:
Final Report by:
Lab Quote No: Q0241 · ES

Sampled By: KEN DOUGLAS - HILL
HLA Project No: S4075802
Project Name: GREEN SQUARE
PO No. 143499

Specifications:

	Yes (tick)
1. Urgent TAT required? (please circle) 24hr 48hr ____days)	
2. Fast TAT Guarantee Required?	
3. Is any sediment layer present in waters to be excluded from extractions?	
4. % extraneous material removed from samples to be reported as per NEPM 5.1.1?	
5. Special storage requirements? (details:)	
6. Shell Quality Partnership:	
7. Report Format: ☐ Fax ☐ Hardcopy ☐ Email:	

Lab. ID	Sample ID	Sampling Date	Matrix: soil	Matrix: water	Matrix: other	Preservation: filtered	Preservation: acid	Preservation: ice	Preservation: other	Container (No. & type)	Analysis Request: BTEX + TPH	Metals*	PAH's	OCP	OPP	PCB	SVOC	VOC	TPH	Lead	TCLP Heavy Metals	TCLP PAH's	Phenols	VHC	Speciated TPH	Other: HOLD
81902	BH15_0 1-0.3	5/04	X					X		1x SOIL JAR	X	X	X													
81903	BH15_1.5-2.0	↓	↓					↓		↓															X	
81904	BH15_3.0-3.2	↓	↓					↓		↓															X	

* Metals Required (Delete elements not required): As Cd Cr Cu Ni Pb Zn Hg

Comments:

E031326

Relinquished by:	Signed:	Date:	
Recieved by: Kathleen	Signed:	Date: 10/4/07	
Relinquished by:	Signed:	Date:	
Recieved by:	Signed:	Date:	

FINAL CERTIFICATE OF ANALYSIS - ENVIRONMENTAL DIVISION

Laboratory Report No: E031326
Client Name: HLA - Envirosciences Pty Limited
Client Reference: Green Square
Contact Name: Kumar Srinivasan
Chain of Custody No: na
Sample Matrix: SOIL

Cover Page 1 of 4
plus Sample Results

Date Received: 10/04/2007
Date Reported: 18/04/2007

This Final Certificate of Analysis consists of sample results, DQI's, method descriptions, laboratory definitions, and internationally recognised NATA accreditation and endorsement. The DQO compliance relates specifically to QA/QC results as performed as part of the sample analysis, and may provide an indication of sample result quality. Transfer of report ownership from Labmark to the client shall only occur once full & final payment has been settled and verified. All report copies may be retracted where full payment has not occured within the agreed settlement period.

QUALITY ASSURANCE CRITERIA

Accuracy:	matrix spike:	1 in first 5-20, then 1 every 20 samples
	lcs, crm, method:	1 per analytical batch
	surrogate spike:	addition per target organic method
Precision:	laboratory duplicate:	1 in first 5-10, then 1 every 10 samples
	laboratory triplicate:	re-extracted & reported when duplicate RPD values exceed acceptance criteria
Holding Times:	soils, waters:	Refer to LabMark Preservation & THT table VOC's 14 days water / soil VAC's 7 days water or 14 days acidified VAC's 14 days soil SVOC's 7 days water, 14 days soil Pesticides 7 days water, 14 days soil Metals 6 months general elements Mercury 28 days
Confirmation:	target organic analysis:	GC/MS, or confirmatory column
Sensitivity:	EQL:	Typically 2-5 x Method Detection Limit (MDL)

QUALITY CONTROL GLOBAL ACCEPTANCE CRITERIA (GAC)

Accuracy:	spike, lcs, crm surrogate:	general analytes 70% - 130% recovery phenol analytes 50% - 130% recovery organophosphorous pesticide analytes 60% - 130% recovery phenoxy acid herbicides 50% - 130% recovery
	anion/cation bal:	+/- 10% (0-3 meq/l), +/- 5% (>3 meq/l)
Precision:	method blank:	not detected >95% of the reported EQL
	duplicate lab RPD (metals):	0-30% (>10xEQL), 0-75% (5-10xEQL) 0-100% (<5xEQL)
	duplicate lab RPD:	0-50% (>10xEQL), 0-75% (5-10xEQL) 0-100% (<5xEQL)

QUALITY CONTROL ANALYTE SPECIFIC ACCEPTANCE CRITERIA (ASAC)

Accuracy:	spike, lcs, crm surrogate:	analyte specific recovery data <3xsd of historical mean
Uncertainty:	spike, lcs:	measurement calculated from historical analyte specific control charts

RESULT ANNOTATION

DQO:	Data Quality Objective	s:	matrix spike recovery	p:	pending
DQI:	Data Quality Indicator	d:	laboratory duplicate	lcs:	laboratory control sample
EQL:	Estimated Quantitation Limit	t:	laboratory triplicate	crm:	certified reference material
- - :	not applicable	r:	RPD relative % difference	mb:	method blank

Ivan Povolny
Quality Control (Report signatory)
ivan.povolny@labmark.com.au

Geoff Weir
Authorising Chemist (NATA signatory)
geoff.weir@labmark.com.au

Simon Mills
Authorising Chemist (NATA signatory)
simon.mills@labmark.com.au

NEPC GUIDELINE COMPLIANCE - DQO

1. GENERAL

A. Results relate specifically to samples as received. Sample results are not corrected for matrix spike, lcs, or surrogate recovery data.

B. EQL's are matrix dependant and may be increased due to sample dilution or matrix interference.

C. Laboratory QA/QC samples are specific to this project.

D. Inter-laboratory proficiency results are available upon request. NATA accreditation details available at www.nata.asn.au.

E. VOC spikes & surrogates added to samples during extraction, SVOC spikes & surrogates added prior to extraction.

F. Recovery data outside GAC limits shall be investigated and compared to ASAC (historical mean +/- 3sd). If recovery data <20%, then the relevant results for that compound are considered not reliable.

G. Recovery data (ms, surrogate, crm, lcs) outside ASAC limits shall initiate an investigative action. Anomolous QC data is examined in conjunction with other QC samples and a final decision whether to accept or reject results is provided by the professional judgement of the senior analyst. The USEPA-CLP National Functional Guidelines are referred to for specific recommendations.

H. Extraction (preparation) date refers to the date that sample preparation was initiated. Note that certain methods not requiring sample preparation (eg. VOCs in water, etc) may report a common extraction and analysis date.

I. LabMark shall maintain an official copy of this Certificate of Analysis for all tracable reference purposes.

2. CHAIN OF CUSTODY (COC) & SAMPLE RECEIPT NOTICE (SRN) REQUIREMENTS

A. SRN issued to client upon sample receipt & login verification.

B. Preservation & sampling date details specified on COC and SRN, unless noted.

C. Sample Integrity & Validated Time of Sample Receipt (VTSR) Holding Times verified (preservation may extend holding time, refer to preservation chart).

3. NATA ACCREDITED METHODS

A. NATA accreditation held for each method and sample matrix type reported, unless noted below.

B. NATA accredited in-house laboratory methods are referenced from NEPC, ASTM, modified USEPA / APHA documents. Corporate Accreditation No. 13542.

C. Subcontracted analyses: Refer to Sample Receipt Notice and additional DQO comments.

LabMark PTY LTD ABN 27 079 798 397
* SYDNEY: Unit 1, 8 Leighton Place Asquith NSW 2077 * MELBOURNE: 116 Moray Street, South Melbourne VIC 3205
* Telephone: (02) 9476 6533 * Fax: (02) 9476 8219 * Telephone: (03) 9686 8344 * Fax: (03) 9686 7344

4. QA/QC FREQUENCY COMPLIANCE TABLE SPECIFIC TO THIS REPORT

Matrix: **SOIL**

Page:	Method:	Totals:	#d	%d-ratio	#t	#s	%s-ratio
1	BTEX by P&T	1	0	0%	0	0	0%
1	Volatile TPH by P&T (vTPH)	1	0	0%	0	0	0%
2	Petroleum Hydrocarbons (TPH)	1	0	0%	0	0	0%
3	Polyaromatic Hydrocarbons (PAH)	1	0	0%	0	0	0%
4	Acid extractable metals (M7)	1	0	0%	0	0	0%
5	Acid extractable mercury	1	0	0%	0	0	0%
6	Moisture	1	--	--	--	--	--

GLOSSARY:

#d	number of discrete duplicate extractions/analyses performed.
%d-ratio	NEPC guideline for laboratory duplicates is 1 in 10 samples (min 10%).
#t	number of triplicate extractions/analyses performed.
#s	number of spiked samples analysed.
%s-ratio	USEPA guideline for laboratory matrix spikes is 1 in 20 samples (min 5%).

5. THERE ARE NO ADDITIONAL COMMENTS SPECIFIC TO THIS REPORT

A. All tests were conducted by LabMark Environmental Sydney, NATA accreditation No. 13542, Corporate Site No. 13535., unless indicated below.

LabMark PTY LTD ABN 27 079 798 397
* SYDNEY: Unit 1, 8 Leighton Place Asquith NSW 2077 * MELBOURNE: 116 Moray Street, South Melbourne VIC 3205
* Telephone: (02) 9476 6533 * Fax: (02) 9476 8219 * Telephone: (03) 9686 8344 * Fax: (03) 9686 7344

CUSTOMER CENTRIC - ANALYTICAL CHEMISTS

Environmental Laboratory Industry Group

Foundation Member

Laboratory Report: E031326

Cover Page 4 of 4

Laboratory QA/QC data shall relate specifically to this report, and may provide an indication of site specific sample result quality. LabMark DOES NOT report NON-RELEVANT BATCH QA/QC data. Acceptance of this self assessment certificate does not preclude any requirement for a QA/QC review by a accredited contaminated site EPA auditor, when and wherever necessary. Laboratory QA/QC self assessment references available upon request.

This document is issued in accordance with NATA's accreditation requirements.

Laboratory Report No: E031326
Client Name: HLA - Enviroscienses Pty Limited
Contact Name: Kumar Srinivasan
Client Reference Green Square S4075802

Date: 18/04/07
This report supercedes reports issued on: 17/04/07

Final
Certificate
of Analysis

Laboratory Identification		**81902**	**lcs**	**mb**							
Sample Identification		BH15	QC	QC							
Depth (m)		0.1-0.3	--	--							
Sampling Date recorded on COC		5/4/07	--	--							
Laboratory Extraction (Preparation) Date		13/4/07	13/4/07	13/4/07							
Laboratory Analysis Date		16/4/07	16/4/07	16/4/07							
Method : E002.2											
BTEX by P&T	**EQL**										
Benzene	0.2	<0.2	95%	<0.2							
Toluene	0.5	<0.5	93%	<0.5							
Ethylbenzene	0.5	<0.5	90%	<0.5							
meta- and para-Xylene	1	<1	92%	<1							
ortho-Xylene	0.5	<0.5	91%	<0.5							
Total Xylene	--	--	--	--							
CDFB (Surr @ 10mg/kg)	--	*104%*	*109%*	*109%*							
Method : E003.2											
Volatile TPH by P&T (vTPH)	**EQL**										
C6 - C9 Fraction	10	<10	96%	<10							

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E002.2: 8-10g soil extracted with 20ml methanol. Analysis by P&T/GC/PID/MSD.
E003.2: 8-10g soil extracted with 20ml methanol. Analysis by P&T/GC/FID.

Laboratory Identification		**81902**	**lcs**	**mb**							
Sample Identification		BH15	QC	QC							
Depth (m)		0.1-0.3	--	--							
Sampling Date recorded on COC		5/4/07	--	--							
Laboratory Extraction (Preparation) Date		13/4/07	13/4/07	13/4/07							
Laboratory Analysis Date		14/4/07	13/4/07	14/4/07							
Method : E006.2											
Petroleum Hydrocarbons (TPH)	**EQL**										
C10 - C14 Fraction	50	<50	--	<50							
C15 - C28 Fraction	100	<100	107%	<100							
C29 - C36 Fraction	100	<100	--	<100							
Sum of TPH C10 - C36	--	--	--	--							

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E006.2: 8-10g soil extracted with 20ml DCM/Acetone (8:2). Analysis by GC/FID.

Laboratory Identification		**81902**	**lcs**	**mb**							
Sample Identification		BH15	QC	QC							
Depth (m)		0.1-0.3	--	--							
Sampling Date recorded on COC		5/4/07	--	--							
Laboratory Extraction (Preparation) Date		13/4/07	13/4/07	13/4/07							
Laboratory Analysis Date		14/4/07	16/4/07	16/4/07							
Method : E007.2											
Polyaromatic Hydrocarbons (PAH)	**EQL**										
Naphthalene	0.5	<0.5	102%	<0.5							
Acenaphthylene	0.5	<0.5	97%	<0.5							
Acenaphthene	0.5	<0.5	96%	<0.5							
Fluorene	0.5	<0.5	123%	<0.5							
Phenanthrene	0.5	<0.5	82%	<0.5							
Anthracene	0.5	<0.5	92%	<0.5							
Fluoranthene	0.5	0.5	97%	<0.5							
Pyrene	0.5	0.5	98%	<0.5							
Benz(a)anthracene	0.5	<0.5	98%	<0.5							
Chrysene	0.5	<0.5	99%	<0.5							
Benzo(b)&(k)fluoranthene	1	<1	96%	<1							
Benzo(a) pyrene	0.5	<0.5	114%	<0.5							
Indeno(1,2,3-c,d)pyrene	0.5	<0.5	94%	<0.5							
Dibenz(a,h)anthracene	0.5	<0.5	105%	<0.5							
Benzo(g,h,i)perylene	0.5	<0.5	86%	<0.5							
Sum of reported PAHs	--	1.0	--	--							
2-FBP (Surr @ 5mg/kg)	--	*94%*	*90%*	*86%*							
TP-d14 (Surr @ 5mg/kg)	--	*94%*	*82%*	*103%*							

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E007.2: 8-10g soil extracted with 20ml DCM/acetone (8:2). Analysis by GC/MS.

Laboratory Identification		**81902**	**crm**	**lcs**	**mb**						
Sample Identification		BH15	QC	QC	QC						
Depth (m)		0.1-0.3	--	--	--						
Sampling Date recorded on COC		5/4/07	--	--	--						
Laboratory Extraction (Preparation) Date		16/4/07	16/4/07	16/4/07	16/4/07						
Laboratory Analysis Date		17/4/07	16/4/07	16/4/07	16/4/07						
Method : E022.2											
Acid extractable metals (M7)	**EQL**										
Arsenic	1	3	98%	95%	<1						
Cadmium	0.1	0.2	92%	98%	<0.1						
Chromium	1	14	99%	100%	<1						
Copper	2	17	95%	97%	<2						
Nickel	1	4	95%	95%	<1						
Lead	2	91	91%	95%	<2						
Zinc	5	98	97%	105%	<5						

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E022.2: 0.5g digested in nitric/hydrochloric acid. Analysis by ICP-MS.

Laboratory Identification		**81902**	**crm**	**lcs**	**mb**						
Sample Identification		BH15	QC	QC	QC						
Depth (m)		0.1-0.3	--	--	--						
Sampling Date recorded on COC		5/4/07	--	--	--						
Laboratory Extraction (Preparation) Date		16/4/07	16/4/07	16/4/07	16/4/07						
Laboratory Analysis Date		17/4/07	16/4/07	16/4/07	16/4/07						
Method : E026.2											
Acid extractable mercury	**EQL**										
Mercury	0.05	0.16	122%	107%	<0.05						

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E026.2: 0.5g digested with nitric/hydrochloric acid. Analysis by CV-ICP-MS or FIMS.

Laboratory Identification		**81902**									
Sample Identification		BH15									
Depth (m)		0.1-0.3									
Sampling Date recorded on COC		5/4/07									
Laboratory Extraction (Preparation) Date		13/4/07									
Laboratory Analysis Date		16/4/07									
Method : E005.2											
Moisture	**EQL**										
Moisture	--	15									

Results expressed in % w/w unless otherwise specified

Comments:

E005.2: Moisture by gravimetric analysis. Results are in % w/w.

Quality, Service, Support

Report Date : 11/04/2007
Report Time : 12:03:09PM

Sample **Receipt** Notice (SRN) for **E031326**

Client Details		Laboratory Reference Information	
Client Name:	HLA - Envirosciences Pty Limited	**Please have this information ready when contacting Labmark.**	
Client Phone:	02 8484 8999		
Client Fax:	02 8484 8989	**Laboratory Report:**	**E031326**
Contact Name:	Kumar Srinivasan	**Quotation Number:**	Q0241.ES
Contact Email:	ksrinivasan@hla-enviro.com.au	**Laboratory Address:**	Unit 1, 8 Leighton Pl. Asquith NSW 2077
Client Address:	PO Box 726 Pymble NSW 2073	**Phone:**	61 2 9476 6533
		Fax:	61 2 9476 8219
Project Name:	Green Square	**Sample Receipt Contact:**	Jakleen El Galada
Project Number:	S4075802	**Email:**	jakleen.galada@labmark.com.au
CoC Number:	- Not provided -	**Reporting Contact:**	Jyothi Lal
Purchase Order:	143499	**Email:**	jyothi.lal@labmark.com.au
Surcharge:	No surcharge applied (results by 6:30pm on due date)		
Sample Matrix:	SOIL		
Date Sampled (earliest date):	05/04/2007	**NATA Accreditation:**	13542
Date Samples Received:	10/04/2007	**TGA GMP License:**	185-336 (Sydney)
Date Sample Receipt Notice issued:	11/04/2007	**APVMA License:**	6105 (Sydney)
Date Preliminary Report Due:	17/04/2007	**AQIS Approval:**	NO356 (Sydney)
		AQIS Entry Permit:	200409998 (Sydney)

Sample Condition:
COC received with samples. Report number and lab ID's defined on COC.
Samples received in good order .
Samples received with cooling media: Crushed ice .
Samples received chilled.
Security seals not required. Direct Labmark's custody taken .
Sample container & chemical preservation suitable .

Comments:

Holding Times:
Date received allows for sufficient time to meet Technical Holding Times.

Preservation:
Chemical preservation of samples satisfactory for requested analytes.

Important Notes:
LabMark shall responsibly dispose of spent customer soil and water samples which includes the disintegration of the sample label. A sample disposal fee of $1.00 is applicable on all samples received by the laboratory regardless of whether they have undergone analytical testing. Sample disposal of environmental samples shall be 31 days (water) and 3 months (soil, HN03 preserved samples) after laboratory receipt, unless otherwise requested in writing by the client. Samples requested to be held in non-refrigerated storage shall incur $5.00/ sample/ 3 months. Additional refrigerated storage shall incur $30/ sample/ 3 months. Combination prices apply only if requested. Transfer of report ownership from LabMark to the client shall occur once full and final payment has been settled and verified. All report copies may be retracted where full payment does not occur within the agreed settlement period.

Analysis comments:

Subcontracted Analyses:

Thank you for choosing Labmark to analyse your project samples.
Additional information on www.labmark.com.au

Report Date : 11/04/2007
Report Time : 12:03:09PM

Quality, Service, Support

Sample **Receipt** Notice (SRN) for **E031326**

The table below represents LabMark's understanding and interpretation of the customer supplied sample COC request. Please confirm that your COC request has been entered correctly. Due to THT and TAT requirements, testing shall commence immediately as per this table, unless the customer intervenes with a correction prior to testing.

GRID REVIEW TABLE

No.	Date	Depth	Client Sample ID	Requested Analysis: BTEX by P&T	Acid extractable mercury	HOLD ON HOLD	Acid extractable metals (M7)	Moisture	Polyaromatic Hydrocarbons (PAH)	PREP Not Reported	Petroleum Hydrocarbons (TPH)	Volatile TPH by P&T (vTPH)											
81902	05/04	0.1-0.3	BH15	●	●		●	●	●	●	●	●											
81903	05/04	1.5-2.0	BH15			●																	
81904	05/04	3.0-3.2	BH15			●																	
			Totals:	1	1	2	1	1	1	1	1	1											

Thank you for choosing Labmark to analyse your project samples.
Additional information on www.labmark.com.au

LabMark

Quality, Service, Support

Report Date : 11/04/2007
Report Time : 12:03:09PM

Sample **Receipt** Notice (SRN) for **E031326**

No.	Date	Depth	Client Sample ID	Requested Analysis: M8 - M7-T_S																		
81902	05/04	0.1-0.3	BH15	●																		
			Totals:	1																		

Thank you for choosing Labmark to analyse your project samples.
Additional information on www.labmark.com.au

10-APR-2007 TUE 13:54 HLA ENVIROSCIENCES FAX NO. 84848989 P. 03

HLA

CHAIN OF CUSTODY

HLA - Enviroscience Pty Limited - Sydney
Level 5, 828 Pacific Hwy
PO Box 726 Pymble NSW 2073
Gordon NSW 2072 Australia
Tel: 61 2 8484 8999
Fax: 61 2 8484 8989
E-mail: mail@syd.hla-enviro.com.au

Laboratory Details
Lab Name: LABMARK
Lab Address: ASQUITH
Contact Name:
Lab. Ref:
Tel:
Fax
Preliminary Report by:
Final Report by:
Lab Quote No: Q0241 · ES

Sampled By: KEN DOUGLAS - HILL
HLA Project No: S4075802
Project Name: GREEN SQUARE
PO No. 143499

Specifications:

	Yes (tick)
1. Urgent TAT required? (please circle) 24hr 48hr ____days)	
2. Fast TAT Guarantee Required?	
3. Is any sediment layer present in waters to be excluded from extractions?	
4. % extraneous material removed from samples to be reported as per NEPM 5.1.1?	
5. Special storage requirements? (details:)	
6. Shell Quality Partnership:	
7. Report Format: ☐ Fax ☐ Hardcopy ☐ Email:	

Lab. ID	Sample ID	Sampling Date	Matrix: soil	Matrix: water	Matrix: other	Preservation: filtered	Preservation: acid	Preservation: ice	Preservation: other	Container (No. & type)	Analysis Request: BTEX + TPH	Metals*	PAH's	OCP	OPP	PCB	SVOC	VOC	TPH	Lead	TCLP Heavy Metals	TCLP PAH's	Phenols	VHC	Speciated TPH	Other: HOLD
81902	BH15_0 1-0.3	5/04	X					X		1x SOIL JAR	X	X	X													
81903	BH15_1.5-2.0	↓	↓					↓		↓															X	
81904	BH15_3.0-3.2	↓	↓					↓		↓															X	

* Metals Required (Delete elements not required): As Cd Cr Cu Ni Pb Zn Hg

Comments:

E031326

Relinquished by:	Signed:	Date:	
Recieved by: Kathleen	Signed:	Date: 10/4/07	
Relinquished by:	Signed:	Date:	
Recieved by:	Signed:	Date:	

Quality, Service, Support

Report Date : 26/04/2007
Report Time : 3:50:30PM

Sample **Receipt** Notice (SRN) for **E031573**

Client Details		Laboratory Reference Information	
Client Name:	HLA - Envirosciences Pty Limited	**Please have this information ready when contacting Labmark.**	
Client Phone:	02 8484 8999		
Client Fax:	02 8484 8989	**Laboratory Report:**	**E031573**
Contact Name:	Kumar Srinivasan	**Quotation Number:**	Q0271.ES
Contact Email:	ksrinivasan@hla-enviro.com.au	**Laboratory Address:**	Unit 1, 8 Leighton Pl. Asquith NSW 2077
Client Address:	PO Box 726 Pymble NSW 2073	**Phone:**	61 2 9476 6533
		Fax:	61 2 9476 8219
Project Name:	Green Square	**Sample Receipt Contact:**	Jakleen El Galada
Project Number:	S4075802	**Email:**	jakleen.galada@labmark.com.au
CoC Number:	- Not provided -	**Reporting Contact:**	Jyothi Lal
Purchase Order:	143499	**Email:**	jyothi.lal@labmark.com.au
Surcharge:	No surcharge applied (results by 6:30pm on due date)		
Sample Matrix:	SOIL		
Date Sampled (earliest date):	23/04/2007	**NATA Accreditation:**	13542
Date Samples Received:	24/04/2007	**TGA GMP License:**	185-336 (Sydney)
Date Sample Receipt Notice issued:	26/04/2007	**APVMA License:**	6105 (Sydney)
Date Preliminary Report Due:	03/05/2007	**AQIS Approval:**	NO356 (Sydney)
		AQIS Entry Permit:	200521534 (Sydney)

Sample Condition:
COC received with samples. Report number and lab ID's defined on COC.
Samples received in good order .
Samples received with cooling media: Crushed ice .
Samples received chilled.
Security seals not required. Direct Labmark's custody taken .
Sample container & chemical preservation suitable .

Comments:

Holding Times:
Date received allows for sufficient time to meet Technical Holding Times.

Preservation:
Chemical preservation of samples satisfactory for requested analytes.

Important Notes:
LabMark shall responsibly dispose of spent customer soil and water samples which includes the disintegration of the sample label. A sample disposal fee of $1.00 is applicable on all samples received by the laboratory regardless of whether they have undergone analytical testing. Sample disposal of environmental samples shall be 31 days (water) and 3 months (soil, HN03 preserved samples) after laboratory receipt, unless otherwise requested in writing by the client. Samples requested to be held in non-refrigerated storage shall incur $5.00/ sample/ 3 months. Additional refrigerated storage shall incur $30/ sample/ 3 months. Combination prices apply only if requested. Transfer of report ownership from LabMark to the client shall occur once full and final payment has been settled and verified. All report copies may be retracted where full payment does not occur within the agreed settlement period.

Analysis comments:

Subcontracted Analyses:

Thank you for choosing Labmark to analyse your project samples.
Additional information on www.labmark.com.au

Report Date : 26/04/2007
Report Time : 3:50:30PM

Quality, Service, Support

Sample **Receipt** Notice (SRN) for **E031573**

The table below represents LabMark's understanding and interpretation of the customer supplied sample COC request. Please confirm that your COC request has been entered correctly. Due to THT and TAT requirements, testing shall commence immediately as per this table, unless the customer intervenes with a correction prior to testing.

GRID REVIEW TABLE

No.	Date	Depth	Client Sample ID	Requested Analysis																			
				BTEX by P&T	Acid extractable mercury	HOLD ON HOLD	Acid extractable metals (M7)	Moisture	Organochlorine Pesticides (OC)	Organophosphorus Pesticides (OP)	Polyaromatic Hydrocarbons (PAH)	Polychlorinated Biphenyls (PCB)	Phenols by GC/MS	PREP Not Reported	Petroleum Hydrocarbons (TPH)	Volatile TPH by P&T (vTPH)							
84617	23/04	0.3-0.5	BH11	●	●		●	●	●	●	●	●		●	●	●							
84618	23/04	2.8-3.0	BH11			●																	
84619	24/04	5.8-6.0	BH11	●	●		●	●			●		●	●	●	●							
84620	23/04		DUP01	●	●		●	●	●	●	●	●		●	●	●							
			Totals:	3	3	1	3	3	2	2	3	2	1	3	3	3							

Thank you for choosing Labmark to analyse your project samples.
Additional information on www.labmark.com.au

LabMark

Quality, Service, Support

Report Date : 26/04/2007
Report Time : 3:50:30PM

Sample **Receipt** Notice (SRN) for **E031573**

No.	Date	Depth	Client Sample ID	Requested Analysis: M8 - M7-T_S
84617	23/04	0.3-0.5	BH11	●
84619	24/04	5.8-6.0	BH11	●
84620	23/04		DUP01	●
			Totals:	3

Thank you for choosing Labmark to analyse your project samples.
Additional information on www.labmark.com.au

HLA

BATCH 1 - POLICE SITE

PAGE 1 of 1

CHAIN OF CUSTODY

HLA - Envirosciences Pty Limited - Sydney
Level 5, 828 Pacific Hwy
PO Box 726 Pymble NSW 2073
Gordon NSW 2072 Australia
Tel: 61 2 8484 8999
Fax: 61 2 8484 8989
E-mail: mail@syd.hla-enviro.com.au

JobRef
E031573

Laboratory Details
Lab Name:
Lab Address: Lalmark
Contact Name: Asgirth
Lab. Ref:
Tel:
Fax
Preliminary Report by:
Final Report by: Q0241.ES
Lab Quote No:

Sampled By: A Synatowicz + Ken D-H
HLA Project No: 54075802
Project Name: Green Square
PO No. ? 143499

Specifications: Please batch seperately
Please email results to: KSrinivasan@hla-enviro.com.au

	Yes (tick)
1. Urgent TAT required? (please circle: 24hr 48hr _____days)	
2. Fast TAT Guarantee Required?	
3. Is any sediment layer present in waters to be excluded from extractions?	
4. % extraneous material removed from samples to be reported as per NEPM 5.1.1?	
5. Special storage requirements? (details: _____)	
6. Shell Quality Partnership:	
7. Report Format: ☐ Fax ☐ Hardcopy ☐ Email :	

Analysis Request

Lab. ID	Sample ID	Sampling Date	Matrix: soil	water	other	Preservation: filt'ed	acid	ice	other	Container (No. & type)	BTEX + TPH	Metals*	PAH's	OCP	OPP	PCB	SVOC	VOC	TPH	Lead	TCLP Heavy Metals	TCLP PAH's	Phenols	VHC	Speciated TPH	Other: HOLD
84617	BH1L 0.3-0.5	23/4/07	X					X		1x soil jar	X	X	X	X	X	X										
84618	BH1L 2.8-3.0	23/4/07	X					X		" "															X	
84619	BH1L 5.8-6.0	24/4/07	X					X		" "	X	X	X										X			
5																										
84620	DUP01	23/4/07	X					X		1x soil jar	X	X	X	X	X	X										

* Metals Required (Delete elements not required): As Cd Cr Cu Ni Pb Zn Hg

Comments:

Lab Report No.

Esky ID

Relinquished by: Alex Synatowicz Signed: Date: 23/4/07
Recieved by: Ken Douglas Hill Signed: Date: 24/4/07

Relinquished by: Ken Douglas-Hill Signed: Date:
Recieved by: DC Signed: 24/4/07 Date: 3pm

CUSTOMER CENTRIC - ANALYTICAL CHEMISTS

No. 13542.

Accredited for compliance with ISO/IEC 17025. The results of tests, calibrations and/or measurements included in this document are traceable to Australian/national standards. NATA is a signatory to the APLAC mutual recognition arrangement for the mutual recognition of the equivalence of testing, calibration and inspection reports.

AQIS
AUSTRALIAN QUARANTINE AND INSPECTION SERVICE

SYDNEY License No. N0356.

Quarantine Approved Premises criteria 5.1 for quarantine containment level 1 (QCI) facilities. Class five criteria cover premises utilised for research, analysis and testing of biological material, soil, animal, plant and human products.

FINAL CERTIFICATE OF ANALYSIS - ENVIRONMENTAL DIVISION

Laboratory Report No:	E031573	Cover Page 1 of 4 plus Sample Results
Client Name:	HLA - Envirosciences Pty Limited	
Client Reference:	Green Square	
Contact Name:	Kumar Srinivasan	
Chain of Custody No:	na	Date Received: 24/04/2007
Sample Matrix:	SOIL	Date Reported: 03/05/2007

This Final Certificate of Analysis consists of sample results, DQI's, method descriptions, laboratory definitions, and internationally recognised NATA accreditation and endorsement. The DQO compliance relates specifically to QA/QC results as performed as part of the sample analysis, and may provide an indication of sample result quality. Transfer of report ownership from Labmark to the client shall only occur once full & final payment has been settled and verified. All report copies may be retracted where full payment has not occured within the agreed settlement period.

QUALITY ASSURANCE CRITERIA

Accuracy:	matrix spike:	1 in first 5-20, then 1 every 20 samples
	lcs, crm, method:	1 per analytical batch
	surrogate spike:	addition per target organic method
Precision:	laboratory duplicate:	1 in first 5-10, then 1 every 10 samples
	laboratory triplicate:	re-extracted & reported when duplicate RPD values exceed acceptance criteria
Holding Times:	soils, waters:	Refer to LabMark Preservation & THT table VOC's 14 days water / soil VAC's 7 days water or 14 days acidified VAC's 14 days soil SVOC's 7 days water, 14 days soil Pesticides 7 days water, 14 days soil Metals 6 months general elements Mercury 28 days
Confirmation:	target organic analysis:	GC/MS, or confirmatory column
Sensitivity:	EQL:	Typically 2-5 x Method Detection Limit (MDL)

QUALITY CONTROL GLOBAL ACCEPTANCE CRITERIA (GAC)

Accuracy:	spike, lcs, crm surrogate:	general analytes 70% - 130% recovery phenol analytes 50% - 130% recovery organophosphorous pesticide analytes 60% - 130% recovery phenoxy acid herbicides 50% - 130% recovery
	anion/cation bal:	+/- 10% (0-3 meq/l), +/- 5% (>3 meq/l)
Precision:	method blank:	not detected >95% of the reported EQL
	duplicate lab RPD (metals):	0-30% (>10xEQL), 0-75% (5-10xEQL) 0-100% (<5xEQL)
	duplicate lab RPD:	0-50% (>10xEQL), 0-75% (5-10xEQL) 0-100% (<5xEQL)

QUALITY CONTROL ANALYTE SPECIFIC ACCEPTANCE CRITERIA (ASAC)

Accuracy:	spike, lcs, crm surrogate:	analyte specific recovery data <3xsd of historical mean
Uncertainty:	spike, lcs:	measurement calculated from historical analyte specific control charts

RESULT ANNOTATION

Data Quality Objective	s:	matrix spike recovery	p:	pending	bcs: batch specific lcs
Data Quality Indicator	d:	laboratory duplicate	lcs:	laboratory control sample	bmb: batch specific mb
Estimated Quantitation Limit	t:	laboratory triplicate	crm:	certified reference material	
not applicable	r:	RPD relative % difference	mb:	method blank	

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Quality Control (Report signatory)
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NEPC GUIDELINE COMPLIANCE - DQO

1. GENERAL

A. Results relate specifically to samples as received. Sample results are not corrected for matrix spike, lcs, or surrogate recovery data.

B. EQL's are matrix dependant and may be increased due to sample dilution or matrix interference.

C. Laboratory QA/QC samples are specific to this project.

D. Inter-laboratory proficiency results are available upon request. NATA accreditation details available at www.nata.asn.au.

E. VOC spikes & surrogates added to samples during extraction, SVOC spikes & surrogates added prior to extraction.

F. Recovery data outside GAC limits shall be investigated and compared to ASAC (historical mean +/- 3sd). If recovery data <20%, then the relevant results for that compound are considered not reliable.

G. Recovery data (ms, surrogate, crm, lcs) outside ASAC limits shall initiate an investigative action. Anomolous QC data is examined in conjunction with other QC samples and a final decision whether to accept or reject results is provided by the professional judgement of the senior analyst. The USEPA-CLP National Functional Guidelines are referred to for specific recommendations.

H. Extraction (preparation) date refers to the date that sample preparation was initiated. Note that certain methods not requiring sample preparation (eg. VOCs in water, etc) may report a common extraction and analysis date.

I. LabMark shall maintain an official copy of this Certificate of Analysis for all tracable reference purposes.

2. CHAIN OF CUSTODY (COC) & SAMPLE RECEIPT NOTICE (SRN) REQUIREMENTS

A. SRN issued to client upon sample receipt & login verification.

B. Preservation & sampling date details specified on COC and SRN, unless noted.

C. Sample Integrity & Validated Time of Sample Receipt (VTSR) Holding Times verified (preservation may extend holding time, refer to preservation chart).

3. NATA ACCREDITED METHODS

A. NATA accreditation held for each in-house method and sample matrix type reported, unless noted below (Refer to subcontracted test reports for NATA accreditation status).

B. NATA accredited in-house laboratory methods are referenced from NEPC, ASTM, modified USEPA / APHA documents. Corporate Accreditation No. 13542.

C. Subcontracted analyses: Refer to Sample Receipt Notice and additional DQO comments.

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4. QA/QC FREQUENCY COMPLIANCE TABLE SPECIFIC TO THIS REPORT

Matrix: **SOIL**

Page:	Method:	Totals:	#d	%d-ratio	#t	#s	%s-ratio
1	BTEX by P&T	3	0	0%	0	0	0%
1	Volatile TPH by P&T (vTPH)	3	0	0%	0	0	0%
2	Petroleum Hydrocarbons (TPH)	3	0	0%	0	0	0%
3	Polyaromatic Hydrocarbons (PAH)	3	0	0%	0	0	0%
4	Phenols by GC/MS	1	0	0%	0	0	0%
5	Organochlorine Pesticides (OC)	2	0	0%	0	0	0%
6	Organophosphorus Pesticides (OP)	2	0	0%	0	0	0%
7	Polychlorinated Biphenyls (PCB)	2	0	0%	0	0	0%
8	Acid extractable metals (M7)	3	0	0%	0	0	0%
9	Acid extractable mercury	3	0	0%	0	0	0%
10	Moisture	3	--	--	--	--	--

GLOSSARY:

#d	number of discrete duplicate extractions/analyses performed.
%d-ratio	NEPC guideline for laboratory duplicates is 1 in 10 samples (min 10%).
#t	number of triplicate extractions/analyses performed.
#s	number of spiked samples analysed.
%s-ratio	USEPA guideline for laboratory matrix spikes is 1 in 20 samples (min 5%).

5. ADDITIONAL COMMENTS SPECIFIC TO THIS REPORT

A. All tests were conducted by LabMark Environmental Sydney, NATA accreditation No. 13542, Corporate Site No. 13535., unless indicated below.

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CUSTOMER CENTRIC - ANALYTICAL CHEMISTS

Environmental Laboratory Industry Group

Foundation Member

Laboratory Report: E031573

Laboratory QA/QC data shall relate specifically to this report, and may provide an indication of site specific sample result quality. LabMark DOES NOT report NON-RELEVANT BATCH QA/QC data. Acceptance of this self assessment certificate does not preclude any requirement for a QA/QC review by a accredited contaminated site EPA auditor, when and wherever necessary. Laboratory QA/QC self assessment references available upon request.

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LabMark PTY LTD ABN 27 079 798 397
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Laboratory Report No: E031573 | **Page:** 1 of 10 | Final

Client Name: HLA - Enviroscienses Pty Limited | plus cover page | Certificate

Contact Name: Kumar Srinivasan | **Date:** 03/05/07 | of Analysis

Client Reference Green Square S4075802 | This report supercedes reports issued on: N/A

Laboratory Identification		**84617**	**84619**	**84620**	**lcs**	**mb**					
Sample Identification		BH11	BH11	DUP01	QC	QC					
Depth (m)		0.3-0.5	5.8-6.0	--	--	--					
Sampling Date recorded on COC		23/4/07	24/4/07	23/4/07	--	--					
Laboratory Extraction (Preparation) Date		30/4/07	30/4/07	30/4/07	30/4/07	30/4/07					
Laboratory Analysis Date		2/5/07	2/5/07	2/5/07	1/5/07	1/5/07					
Method : E002.2											
BTEX by P&T	**EQL**										
Benzene	0.2	<0.2	<0.2	<0.2	92%	<0.2					
Toluene	0.5	<0.5	<0.5	<0.5	92%	<0.5					
Ethylbenzene	0.5	<0.5	<0.5	<0.5	89%	<0.5					
meta- and para-Xylene	1	<1	<1	<1	91%	<1					
ortho-Xylene	0.5	<0.5	<0.5	<0.5	92%	<0.5					
Total Xylene	--	--	--	--	--	--					
CDFB (Surr @ 10mg/kg)	--	*106%*	*99%*	*106%*	*110%*	*108%*					
Method : E003.2											
Volatile TPH by P&T (vTPH)	**EQL**										
C6 - C9 Fraction	10	<10	<10	<10	91%	<10					

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E002.2: 8-10g soil extracted with 20ml methanol. Analysis by P&T/GC/PID/MSD.
E003.2: 8-10g soil extracted with 20ml methanol. Analysis by P&T/GC/FID.

Final
Certificate of Analysis

Laboratory Identification		**84617**	**84619**	**84620**	**lcs**	**mb**					
Sample Identification		BH11	BH11	DUP01	QC	QC					
Depth (m)		0.3-0.5	5.8-6.0	--	--	--					
Sampling Date recorded on COC		23/4/07	24/4/07	23/4/07	--	--					
Laboratory Extraction (Preparation) Date		30/4/07	30/4/07	30/4/07	30/4/07	30/4/07					
Laboratory Analysis Date		1/5/07	1/5/07	1/5/07	1/5/07	1/5/07					
Method : E006.2											
Petroleum Hydrocarbons (TPH)	**EQL**										
C10 - C14 Fraction	50	<50	<50	<50	83%	<50					
C15 - C28 Fraction	100	120	<100	<100	--	<100					
C29 - C36 Fraction	100	300	<100	<100	--	<100					
Sum of TPH C10 - C36	--	420	--	--	--	--					

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E006.2: 8-10g soil extracted with 20ml DCM/Acetone (8:2). Analysis by GC/FID.

Laboratory Identification		**84617**	**84619**	**84620**	**lcs**	**mb**					
Sample Identification		BH11	BH11	DUP01	QC	QC					
Depth (m)		0.3-0.5	5.8-6.0	--	--	--					
Sampling Date recorded on COC		23/4/07	24/4/07	23/4/07	--	--					
Laboratory Extraction (Preparation) Date		30/4/07	30/4/07	30/4/07	30/4/07	30/4/07					
Laboratory Analysis Date		2/5/07	2/5/07	2/5/07	1/5/07	1/5/07					
Method : E007.2											
Polyaromatic Hydrocarbons (PAH)	**EQL**										
Naphthalene	0.5	<0.5	<0.5	<0.5	91%	<0.5					
Acenaphthylene	0.5	<0.5	<0.5	<0.5	89%	<0.5					
Acenaphthene	0.5	<0.5	<0.5	<0.5	91%	<0.5					
Fluorene	0.5	<0.5	<0.5	<0.5	92%	<0.5					
Phenanthrene	0.5	0.5	1.8	<0.5	90%	<0.5					
Anthracene	0.5	<0.5	<0.5	<0.5	88%	<0.5					
Fluoranthene	0.5	0.8	2.5	<0.5	89%	<0.5					
Pyrene	0.5	0.8	2.4	<0.5	89%	<0.5					
Benz(a)anthracene	0.5	<0.5	1.5	<0.5	80%	<0.5					
Chrysene	0.5	<0.5	1.5	<0.5	85%	<0.5					
Benzo(b)&(k)fluoranthene	1	<1	3	<1	98%	<1					
Benzo(a) pyrene	0.5	<0.5	1.3	<0.5	89%	<0.5					
Indeno(1,2,3-c,d)pyrene	0.5	<0.5	0.8	<0.5	82%	<0.5					
Dibenz(a,h)anthracene	0.5	<0.5	<0.5	<0.5	80%	<0.5					
Benzo(g,h,i)perylene	0.5	<0.5	0.9	<0.5	86%	<0.5					
Sum of reported PAHs	--	2.1	15.7	--	--	--					
2-FBP (Surr @ 5mg/kg)	--	*97%*	*81%*	*100%*	*90%*	*100%*					
TP-d14 (Surr @ 5mg/kg)	--	*94%*	*85%*	*98%*	*98%*	*105%*					

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E007.2: 8-10g soil extracted with 20ml DCM/acetone (8:2). Analysis by GC/MS.

Laboratory Identification		**84619**	**lcs**	**mb**							
Sample Identification		BH11	QC	QC							
Depth (m)		5.8-6.0	--	--							
Sampling Date recorded on COC		24/4/07	--	--							
Laboratory Extraction (Preparation) Date		30/4/07	30/4/07	30/4/07							
Laboratory Analysis Date		2/5/07	1/5/07	1/5/07							
Method : E008.2											
Phenols by GC/MS	**EQL**										
Phenol	0.5	<0.5	90%	<0.5							
2-chlorophenol	0.5	<0.5	88%	<0.5							
2-methylphenol	0.5	<0.5	91%	<0.5							
3-&4-methylphenol	0.5	<0.5	89%	<0.5							
2-nitrophenol	0.5	<0.5	78%	<0.5							
2,4-dimethylphenol	0.5	<0.5	92%	<0.5							
2,4-dichlorophenol	0.5	<0.5	91%	<0.5							
4-chloro-3-methylphenol	0.5	<0.5	90%	<0.5							
2,4,6-trichlorophenol	0.5	<0.5	87%	<0.5							
2,4,5-trichlorophenol	0.5	<0.5	89%	<0.5							
Pentachlorophenol	1	<1	75%	<1							
Sum of reported phenols	--	--	--	--							
2-FP (Surr @ 5mg/kg)	--	*78%*	*95%*	*112%*							
Phenol-d5 (Surr @ 5mg/kg)	--	*79%*	*95%*	*108%*							
2,4,6-TBP (Surr @ 5mg/kg)	--	*74%*	*90%*	*95%*							

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E008.2: 8-10g soil extracted with 20ml DCM/acetone (8:2). Analysis by GC/MS.

Laboratory Identification		**84617**	**84620**	**lcs**	**mb**						
Sample Identification		BH11	DUP01	QC	QC						
Depth (m)		0.3-0.5	--	--	--						
Sampling Date recorded on COC		23/4/07	23/4/07	--	--						
Laboratory Extraction (Preparation) Date		30/4/07	30/4/07	30/4/07	30/4/07						
Laboratory Analysis Date		2/5/07	2/5/07	1/5/07	1/5/07						
Method : E013.2											
Organochlorine Pesticides (OC)	**EQL**										
a-BHC	0.05	<0.05	<0.05	98%	<0.05						
Hexachlorobenzene	0.05	<0.05	<0.05	104%	<0.05						
b-BHC	0.05	<0.05	<0.05	102%	<0.05						
g-BHC (Lindane)	0.05	<0.05	<0.05	102%	<0.05						
d-BHC	0.05	<0.05	<0.05	115%	<0.05						
Heptachlor	0.05	<0.05	<0.05	101%	<0.05						
Aldrin	0.05	<0.05	<0.05	95%	<0.05						
Heptachlor epoxide	0.05	<0.05	<0.05	98%	<0.05						
trans-chlordane	0.05	<0.05	<0.05	97%	<0.05						
Endosulfan I	0.05	<0.05	<0.05	99%	<0.05						
cis-chlordane	0.05	<0.05	<0.05	99%	<0.05						
Dieldrin	0.05	<0.05	<0.05	97%	<0.05						
4,4-DDE	0.05	<0.05	<0.05	96%	<0.05						
Endrin	0.05	<0.05	<0.05	88%	<0.05						
Endosulfan II	0.05	<0.05	<0.05	100%	<0.05						
4,4-DDD	0.05	<0.05	<0.05	107%	<0.05						
Endosulfan sulphate	0.05	<0.05	<0.05	104%	<0.05						
4,4-DDT	0.2	<0.2	<0.2	101%	<0.2						
Methoxychlor	0.2	<0.2	<0.2	103%	<0.2						
DBC (Surr @ 0.2mg/kg)	--	*107%*	*99%*	*106%*	*113%*						

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E013.2: 8-10g soil extracted with 20ml hexane/acetone (1:1). Analysis by GC/dual ECD.

Laboratory Identification		**84617**	**84620**	**lcs**	**mb**						
Sample Identification		BH11	DUP01	QC	QC						
Depth (m)		0.3-0.5	--	--	--						
Sampling Date recorded on COC		23/4/07	23/4/07	--	--						
Laboratory Extraction (Preparation) Date		30/4/07	30/4/07	30/4/07	30/4/07						
Laboratory Analysis Date		1/5/07	1/5/07	1/5/07	1/5/07						
Method : E014.2											
Organophosphorus Pesticides (OP)	**EQL**										
Dichlorvos	0.5	<0.5	<0.5	125%	<0.5						
Mevinphos (Phosdrin)	0.5	<0.5	<0.5	78%	<0.5						
Demeton (total)	1	<1	<1	128%	<1						
Ethoprop	0.5	<0.5	<0.5	118%	<0.5						
Monocrotophos	0.5	<0.5	<0.5	114%	<0.5						
Phorate	0.5	<0.5	<0.5	117%	<0.5						
Dimethoate	0.5	<0.5	<0.5	121%	<0.5						
Diazinon	0.5	<0.5	<0.5	108%	<0.5						
Disulfoton	0.5	<0.5	<0.5	121%	<0.5						
Methyl parathion	0.5	<0.5	<0.5	115%	<0.5						
Ronnel	0.5	<0.5	<0.5	127%	<0.5						
Fenitrothion	0.5	<0.5	<0.5	110%	<0.5						
Malathion	0.5	<0.5	<0.5	124%	<0.5						
Chlorpyrifos	0.5	<0.5	<0.5	113%	<0.5						
Fenthion	0.5	<0.5	<0.5	125%	<0.5						
Parathion	0.5	<0.5	<0.5	126%	<0.5						
Stirofos	0.5	<0.5	<0.5	120%	<0.5						
Prothiofos	0.5	<0.5	<0.5	124%	<0.5						
Azinophos methyl	0.5	<0.5	<0.5	121%	<0.5						
Coumaphos	0.5	<0.5	<0.5	126%	<0.5						
TPP (Surr @ 2mg/kg)	--	*95%*	*99%*	*102%*	*124%*						

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E014.2: 8-10g soil extracted with 20ml hexane/acetone (1:1). Analysis by GC/MSD.

Laboratory Identification		**84617**	**84620**	**lcs**	**mb**						
Sample Identification		BH11	DUP01	QC	QC						
Depth (m)		0.3-0.5	--	--	--						
Sampling Date recorded on COC		23/4/07	23/4/07	--	--						
Laboratory Extraction (Preparation) Date		30/4/07	30/4/07	30/4/07	30/4/07						
Laboratory Analysis Date		2/5/07	2/5/07	1/5/07	1/5/07						
Method : E013.2											
Polychlorinated Biphenyls (PCB)	**EQL**										
Arochlor 1016	0.5	<0.5	<0.5	--	<0.5						
Arochlor 1232	0.5	<0.5	<0.5	--	<0.5						
Arochlor 1242	0.5	<0.5	<0.5	--	<0.5						
Arochlor 1248	0.5	<0.5	<0.5	114%	<0.5						
Arochlor 1254	0.5	<0.5	<0.5	--	<0.5						
Arochlor 1260	0.5	<0.5	<0.5	--	<0.5						
Sum of reported PCBs	--	--	--	--	--						
DBC (Surr @ 0.2mg/kg)	--	*107%*	*99%*	*104%*	*113%*						

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E013.2: 8-10g soil extracted with 20ml hexane/acetone (1:1). Analysis by GC/dual ECD.

Laboratory Identification		**84617**	**84619**	**84620**	**crm**	**lcs**	**mb**				
Sample Identification		BH11	BH11	DUP01	QC	QC	QC				
Depth (m)		0.3-0.5	5.8-6.0	--	--	--	--				
Sampling Date recorded on COC		23/4/07	24/4/07	23/4/07	--	--	--				
Laboratory Extraction (Preparation) Date		1/5/07	1/5/07	1/5/07	1/5/07	1/5/07	1/5/07				
Laboratory Analysis Date		1/5/07	1/5/07	1/5/07	2/5/07	1/5/07	1/5/07				
Method : E022.2											
Acid extractable metals (M7)	**EQL**										
Arsenic	1	3	7	3	97%	96%	<1				
Cadmium	0.1	0.4	0.3	0.4	87%	100%	<0.1				
Chromium	1	22	10	19	93%	88%	<1				
Copper	2	110	210	140	88%	95%	<2				
Nickel	1	110	4	110	91%	94%	<1				
Lead	2	91	180	87	86%	89%	<2				
Zinc	5	180	200	180	87%	97%	<5				

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E022.2: 0.5g digested in nitric/hydrochloric acid. Analysis by ICP-MS.

Laboratory Identification		**84617**	**84619**	**84620**	**crm**	**lcs**	**mb**				
Sample Identification		BH11	BH11	DUP01	QC	QC	QC				
Depth (m)		0.3-0.5	5.8-6.0	--	--	--	--				
Sampling Date recorded on COC		23/4/07	24/4/07	23/4/07	--	--	--				
Laboratory Extraction (Preparation) Date		1/5/07	1/5/07	1/5/07	1/5/07	1/5/07	1/5/07				
Laboratory Analysis Date		1/5/07	2/5/07	1/5/07	2/5/07	2/5/07	2/5/07				
Method : E026.2											
Acid extractable mercury	**EQL**										
Mercury	0.05	0.21	0.31	0.18	99%	83%	<0.05				

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E026.2: 0.5g digested with nitric/hydrochloric acid. Analysis by CV-ICP-MS or FIMS.

Final
Certificate of Analysis

Laboratory Identification		**84617**	**84619**	**84620**							
Sample Identification		BH11	BH11	DUP01							
Depth (m)		0.3-0.5	5.8-6.0	--							
Sampling Date recorded on COC		23/4/07	24/4/07	23/4/07							
Laboratory Extraction (Preparation) Date		30/4/07	30/4/07	30/4/07							
Laboratory Analysis Date		1/5/07	1/5/07	1/5/07							
Method : E005.2											
Moisture	**EQL**										
Moisture	--	6	19	4							

Results expressed in % w/w unless otherwise specified

Comments:

E005.2: Moisture by gravimetric analysis. Results are in % w/w.

Quality, Service, Support

Report Date : 26/04/2007
Report Time : 3:50:30PM

Sample **Receipt** Notice (SRN) for **E031573**

Client Details		Laboratory Reference Information	
Client Name:	HLA - Envirosciences Pty Limited	**Please have this information ready when contacting Labmark.**	
Client Phone:	02 8484 8999		
Client Fax:	02 8484 8989	**Laboratory Report:**	**E031573**
Contact Name:	Kumar Srinivasan	**Quotation Number:**	Q0271.ES
Contact Email:	ksrinivasan@hla-enviro.com.au	**Laboratory Address:**	Unit 1, 8 Leighton Pl. Asquith NSW 2077
Client Address:	PO Box 726 Pymble NSW 2073	**Phone:**	61 2 9476 6533
		Fax:	61 2 9476 8219
Project Name:	Green Square	**Sample Receipt Contact:**	Jakleen El Galada
Project Number:	S4075802	**Email:**	jakleen.galada@labmark.com.au
CoC Number:	- Not provided -	**Reporting Contact:**	Jyothi Lal
Purchase Order:	143499	**Email:**	jyothi.lal@labmark.com.au
Surcharge:	No surcharge applied (results by 6:30pm on due date)		
Sample Matrix:	SOIL		
Date Sampled (earliest date):	23/04/2007	**NATA Accreditation:**	13542
Date Samples Received:	24/04/2007	**TGA GMP License:**	185-336 (Sydney)
Date Sample Receipt Notice issued:	26/04/2007	**APVMA License:**	6105 (Sydney)
Date Preliminary Report Due:	03/05/2007	**AQIS Approval:**	NO356 (Sydney)
		AQIS Entry Permit:	200521534 (Sydney)

Sample Condition:
COC received with samples. Report number and lab ID's defined on COC.
Samples received in good order .
Samples received with cooling media: Crushed ice .
Samples received chilled.
Security seals not required. Direct Labmark's custody taken .
Sample container & chemical preservation suitable .

Comments:

Holding Times:
Date received allows for sufficient time to meet Technical Holding Times.

Preservation:
Chemical preservation of samples satisfactory for requested analytes.

Important Notes:
LabMark shall responsibly dispose of spent customer soil and water samples which includes the disintegration of the sample label. A sample disposal fee of $1.00 is applicable on all samples received by the laboratory regardless of whether they have undergone analytical testing. Sample disposal of environmental samples shall be 31 days (water) and 3 months (soil, HN03 preserved samples) after laboratory receipt, unless otherwise requested in writing by the client. Samples requested to be held in non-refrigerated storage shall incur $5.00/ sample/ 3 months. Additional refrigerated storage shall incur $30/ sample/ 3 months. Combination prices apply only if requested. Transfer of report ownership from LabMark to the client shall occur once full and final payment has been settled and verified. All report copies may be retracted where full payment does not occur within the agreed settlement period.

Analysis comments:

Subcontracted Analyses:

Thank you for choosing Labmark to analyse your project samples.
Additional information on www.labmark.com.au

Report Date : 26/04/2007
Report Time : 3:50:30PM

Quality, Service, Support

Sample **Receipt** Notice (SRN) for **E031573**

The table below represents LabMark's understanding and interpretation of the customer supplied sample COC request. Please confirm that your COC request has been entered correctly. Due to THT and TAT requirements, testing shall commence immediately as per this table, unless the customer intervenes with a correction prior to testing.

GRID REVIEW TABLE

No.	Date	Depth	Client Sample ID	Requested Analysis																			
				BTEX by P&T	Acid extractable mercury	HOLD ON HOLD	Acid extractable metals (M7)	Moisture	Organochlorine Pesticides (OC)	Organophosphorus Pesticides (OP)	Polyaromatic Hydrocarbons (PAH)	Polychlorinated Biphenyls (PCB)	Phenols by GC/MS	PREP Not Reported	Petroleum Hydrocarbons (TPH)	Volatile TPH by P&T (vTPH)							
84617	23/04	0.3-0.5	BH11	●	●		●	●	●	●	●	●		●	●	●							
84618	23/04	2.8-3.0	BH11			●																	
84619	24/04	5.8-6.0	BH11	●	●		●	●			●		●	●	●	●							
84620	23/04		DUP01	●	●		●	●	●	●	●	●		●	●	●							
			Totals:	3	3	1	3	3	2	2	3	2	1	3	3	3							

Thank you for choosing Labmark to analyse your project samples.
Additional information on www.labmark.com.au

LabMark

Quality, Service, Support

Report Date : 26/04/2007
Report Time : 3:50:30PM

Sample **Receipt** Notice (SRN) for **E031573**

No.	Date	Depth	Client Sample ID	Requested Analysis: M8 - M7-T_S
84617	23/04	0.3-0.5	BH11	●
84619	24/04	5.8-6.0	BH11	●
84620	23/04		DUP01	●
			Totals:	3

Thank you for choosing Labmark to analyse your project samples.
Additional information on www.labmark.com.au

HLA

BATCH 1 - POLICE SITE

PAGE 1 of 1

CHAIN OF CUSTODY

HLA - Envirosciences Pty Limited - Sydney
Level 5, 828 Pacific Hwy
PO Box 726 Pymble NSW 2073
Gordon NSW 2072 Australia
Tel: 61 2 8484 8999
Fax: 61 2 8484 8989
E-mail: mail@syd.hla-enviro.com.au

JobRef
E031573

Laboratory Details
Lab Name:
Lab Address: Lalmark
Contact Name: Asgirth
Lab. Ref:
Tel:
Fax
Preliminary Report by:
Final Report by: Q0241.ES
Lab Quote No:

Sampled By: A Synatowicz + Ken D-H
HLA Project No: 54075802
Project Name: Green Square
PO No. ? 143499

Specifications: Please batch seperately
Please email results to: KSrinivasan@hla-enviro.com.au

	Yes (tick)
1. Urgent TAT required? (please circle: 24hr 48hr _____days)	
2. Fast TAT Guarantee Required?	
3. Is any sediment layer present in waters to be excluded from extractions?	
4. % extraneous material removed from samples to be reported as per NEPM 5.1.1?	
5. Special storage requirements? (details: _____)	
6. Shell Quality Partnership:	
7. Report Format: ☐ Fax ☐ Hardcopy ☐ Email :	

Analysis Request

Lab. ID	Sample ID	Sampling Date	Matrix: soil	water	other	Preservation: filt'ed	acid	ice	other	Container (No. & type)	BTEX + TPH	Metals*	PAH's	OCP	OPP	PCB	SVOC	VOC	TPH	Lead	TCLP Heavy Metals	TCLP PAH's	Phenols	VHC	Speciated TPH	Other: HOLD
84617	BH1L 0.3-0.5	23/4/07	X					X		1x soil jar	X	X	X	X	X	X										
84618	BH1L 2.8-3.0	23/4/07	X					X		" "															X	
84619	BH1L 5.8-6.0	24/4/07	X					X		" "	X	X	X										X			
5																										
84620	DUP01	23/4/07	X					X		1x soil jar	X	X	X	X	X	X										

* Metals Required (Delete elements not required): As Cd Cr Cu Ni Pb Zn Hg

Comments:

Lab Report No.

Esky ID

Relinquished by: Alex Synatowicz Signed: Date: 23/4/07
Recieved by: Ken Douglas Hill Signed: Date: 24/4/07

Relinquished by: Ken Douglas-Hill Signed: Date:
Recieved by: DC Signed: 24/4/07 Date: 3pm

Quality, Service, Support

Report Date : 3/05/2007
Report Time : 9:13:38AM

Sample **Receipt** Notice (SRN) for **E031684**

Client Details		Laboratory Reference Information	
Client Name:	HLA - Envirosciences Pty Limited	**Please have this information ready when contacting Labmark.**	
Client Phone:	02 8484 8999		
Client Fax:	02 8484 8989	**Laboratory Report:**	**E031684**
Contact Name:	Kumar Srinivasan	**Quotation Number:**	Q0271.ES
Contact Email:	ksrinivasan@hla-enviro.com.au	**Laboratory Address:**	Unit 1, 8 Leighton Pl. Asquith NSW 2077
Client Address:	PO Box 726 Pymble NSW 2073	**Phone:**	61 2 9476 6533
		Fax:	61 2 9476 8219
Project Name:	Green Square	**Sample Receipt Contact:**	Jakleen El Galada
Project Number:	S4075802	**Email:**	jakleen.galada@labmark.com.au
CoC Number:	- Not provided -	**Reporting Contact:**	Jyothi Lal
Purchase Order:	143799	**Email:**	jyothi.lal@labmark.com.au
Surcharge:	No surcharge applied (results by 6:30pm on due date)		
Sample Matrix:	SOIL & WATER		
Date Sampled (earliest date):	30/04/2007	**NATA Accreditation:**	13542
Date Samples Received:	02/05/2007	**TGA GMP License:**	185-336 (Sydney)
Date Sample Receipt Notice issued:	03/05/2007	**APVMA License:**	6105 (Sydney)
Date Preliminary Report Due:	09/05/2007	**AQIS Approval:**	NO356 (Sydney)
		AQIS Entry Permit:	200521534 (Sydney)

Reporting Requirements: Electronic Data Download required: No

Sample Condition: COC received with samples. Report number and lab ID's defined on COC.
Samples received in good order .
Samples received with cooling media: Crushed ice .
Samples received chilled.
Security seals intact .
Sample container & chemical preservation suitable .

Comments:

Holding Times: Date received allows for sufficient time to meet Technical Holding Times.

Preservation: Chemical preservation of samples satisfactory for requested analytes.

Important Notes:

LabMark shall responsibly dispose of spent customer soil and water samples which includes the disintegration of the sample label. A sample disposal fee of $1.00 is applicable on all samples received by the laboratory regardless of whether they have undergone analytical testing. Sample disposal of environmental samples shall be 31 days (water) and 3 months (soil, HN03 preserved samples) after laboratory receipt, unless otherwise requested in writing by the client. Samples requested to be held in non-refrigerated storage shall incur $5.00/ sample/ 3 months. Additional refrigerated storage shall incur $30/ sample/ 3 months. Combination prices apply only if requested. Transfer of report ownership from LabMark to the client shall occur once full and final payment has been settled and verified. All report copies may be retracted where full payment does not occur within the agreed settlement period.

Analysis comments:

Subcontracted Analyses:

Reported by Aust. Safer Env & Tech., NATA accreditation No. 14484

Thank you for choosing Labmark to analyse your project samples.

Additional information on www.labmark.com.au

Report Date : 3/05/2007
Report Time : 9:06:31AM

Quality, Service, Support

Sample **Receipt** Notice (SRN) for **E031684**

The table below represents LabMark's understanding and interpretation of the customer supplied sample COC request. Please confirm that your COC request has been entered correctly. Due to THT and TAT requirements, testing shall commence immediately as per this table, unless the customer intervenes with a correction prior to testing.

GRID REVIEW TABLE

No.	Date	Depth	Client Sample ID	Requested Analysis																				
				BTEX by P&T	BTEX by P&T	Acid extractable mercury	HOLD ON HOLD	Acid extractable metals (M7)	Moisture	Organochlorine Pesticides (OC)	Organophosphorus Pesticides (OP)	Polyaromatic Hydrocarbons (PAH)	Polyaromatic Hydrocarbons (PAH)	Polychlorinated Biphenyls (PCB)	Phenols by GC/MS	PREP Not Reported	PREP Not Reported	Semivolatile Organic Compounds (SVOC)	Petroleum Hydrocarbons (TPH)	Petroleum Hydrocarbons (TPH)	Volatile TPH by P&T (vTPH)	Volatile TPH by P&T (vTPH)	External Not reported- Asbestos
85768	30/04	0.5-0.7	BH1	●		●		●	●					●		●		●	●		●		
85769	30/04	0.8-1.0	BH1				●																
85770	30/04	1.3-1.5	BH1	●		●		●	●			●				●			●		●		
85771	30/04	2.5-2.7	BH1				●																
85772	30/04	0.5-0.7	BH5	●		●		●	●					●		●		●	●		●		
85773	30/04	0.6-0.8	BH5	●		●		●	●			●				●			●		●		
85774	30/04	0.4	BH1													●							●
85775	01/05	0.4-0.5	BH2						●						●	●							
85776	01/05	1.3-1.5	BH2	●		●		●	●	●	●	●		●		●			●		●		
85777	01/05	5.0-5.1	BH2				●																
85778	01/05	0.2-0.4	BH3	●		●		●	●	●	●	●				●			●		●		
85779	01/05	0.7-0.9	BH3	●		●		●	●			●				●			●		●		
85780	01/05	3.5-3.7	BH3				●																
85781	01/05	0.2-0.4	BH8	●		●		●	●	●	●	●				●			●		●		
85782	01/05	1.0-1.2	BH8				●																
85783	01/05	2.6-2.9	BH8	●		●		●	●			●				●			●		●		
85784	01/05		DUP03	●		●		●	●			●				●			●		●		
85785	30/04		QW01		●								●				●			●		●	
85786	01/05		QW02		●								●				●			●		●	
			Totals:	10	2	10	5	10	11	3	3	8	2	3	1	12	2	2	10	2	10	2	1

Thank you for choosing Labmark to analyse your project samples.
Additional information on www.labmark.com.au

Quality, Service, Support

Report Date : 3/05/2007
Report Time : 9:06:31AM

Sample **Receipt** Notice (SRN) for **E031684**

No.	Date	Depth	Client Sample ID	Requested Analysis: M8 - M7-T_S																			
85768	30/04	0.5-0.7	BH1	●																			
85770	30/04	1.3-1.5	BH1	●																			
85772	30/04	0.5-0.7	BH5	●																			
85773	30/04	0.6-0.8	BH5	●																			
85776	01/05	1.3-1.5	BH2	●																			
85778	01/05	0.2-0.4	BH3	●																			
85779	01/05	0.7-0.9	BH3	●																			
85781	01/05	0.2-0.4	BH8	●																			
85783	01/05	2.6-2.9	BH8	●																			
85784	01/05		DUP03	●																			
			Totals:	10																			

Thank you for choosing Labmark to analyse your project samples.
Additional information on www.labmark.com.au

HLA Page 1 of 2

CHAIN OF CUSTODY

HLA - Enviroscience Pty Limited - Sydney
Level 5, 828 Pacific Hwy
PO Box 726 Pymble NSW 2073
Gordon NSW 2072 Australia
Tel: 61 2 8484 8999
Fax: 61 2 8484 8989
E-mail: mail@syd.hla-enviro.com.au

Laboratory Details
Lab Name: Labmark
Lab Address Asquith
Contact Name:
Lab. Ref:
Tel:
Fax
Preliminary Report by:
Final Report by:
Lab Quote No: Q0241.ES

Sampled By: KATE O'BRIEN
HLA Project No: S4075802
Project Name: GREEN SQUARE - SITE 2 PO No. 143499

Specifications:
Project Manager: Kumar Srinivasan ESDAT Format

	Yes (tick)
1. Urgent TAT required? (please circle: 24hr 48hr _____days)	
2. Fast TAT Guarantee Required?	
3. Is any sediment layer present in waters to be excluded from extractions?	
4. % extraneous material removed from samples to be reported as per NEPM 5.1.1?	
5. Special storage requirements? (details: _____)	
6. Shell Quality Partnership:	
7. Report Format: ☐ Fax ☐ Hardcopy ☑ Email : To Kumar	

Lab. ID	Sample ID	Sampling Date	Matrix: soil	water	other	Preservation: filt'ed	acid	ice	other	Container (No. & type)	BTEX + TPH	Metals*	PAH's	OCP	OPP	PCB	SVOC	VOC	TPH	Lead	TCLP Heavy Metals	TCLP PAH's	Phenols	VHC	Speciated TPH	Other: HOLD	Asbestos		Please Send to ALS for Analysis
85768	BH1_ 0.5-0.7	30.4.07	X					X		glass jar x1	X	X	X	X	X	X	X											
85769	BH1_ 0.8-1.0	"	X					X		"																X			
85770	BH1_ 1.3-1.5	"	X					X		"	X	X	X																
85771	BH1_ 2.5-2.7	"	X					X		"																X			
85772	BH5_ 0.5-0.7	"	X					X		"	X	X	X	X	X	X	X												
85773	BH5_ 0.6-0.8	"	X					X		"	X	X	X																
85774	BH1_ 0.4	"	X					X		plastic bag																	X		
85775	BH2_ 0.4-0.5	1/5/07	X					X		glass jar x1													X						
85776	BH2_ 1.3-1.5	"	X					X		"	X	X	X	X	X	X													
85777	BH2_ 5.0-5.1	"	X					X		"																X			
85778	BH3_ 0.2-0.4	"	X					X		"	X	X	X	X	X														
85779	BH3_ 0.7-0.9	"	X					X		"	X	X	X																
ALS	DUP02	1/5/07	X					X		glass jar x1																			X

* Metals Required (Delete elements not required): As Cd Cr Cu Ni Pb Zn Hg

Comments: DUP02 to ALS (ALS PO No. 143500)

Lab Report No. 231684

Esky ID

Relinquished by: Kate O'Brien Signed: Date: 2/5/07

Recieved by: Signed: Date:

Relinquished by: Signed: SA Date: 1.45pm

Recieved by: Signed: Date:

HLA Page 2 of 2

CHAIN OF CUSTODY

HLA - Enviroscences Pty Limited - Sydney
Level 5, 828 Pacific Hwy
PO Box 726 Pymble NSW 2073
Gordon NSW 2072 Australia
Tel: 61 2 8484 8999
Fax: 61 2 8484 8989
E-mail: mail@syd.hla-enviro.com.au

Laboratory Details
Lab Name:
Lab Address
Contact Name:
Lab. Ref:
Tel:
Fax
Preliminary Report by:
Final Report by:
Lab Quote No:

Sampled By:
HLA Project No: 84075802
Project Name:
PO No.

Specifications:

	Yes (tick)
1. Urgent TAT required? (please circle: 24hr 48hr _____days)	
2. Fast TAT Guarantee Required?	
3. Is any sediment layer present in waters to be excluded from extractions?	
4. % extraneous material removed from samples to be reported as per NEPM 5.1.1?	
5. Special storage requirements? (details: _____)	
6. Shell Quality Partnership:	
7. Report Format: ☐ Fax ☐ Hardcopy ☐ Email :	

Analysis Request

Lab. ID	Sample ID	Sampling Date	Matrix: soil	water	other	Preservation: filt'ed	acid	ice	other	Container (No. & type)	BTEX + TPH	Metals*	PAH's	OCP	OPP	PCB	SVOC	VOC	TPH	Lead	TCLP Heavy Metals	TCLP PAH's	Phenols	VHC	Speciated TPH	Other: HOLD
85780	BH3_3.5-3.7	1.5.07	X					X		Soil jar																X
85781	BH8_0.2-0.4	"	X					X		"	X	X	X	X	X											
85782	BH8_1.0-1.2	"	X					X		"	X	X	X	X	X											X
85783	BH8_2.6-2.9	"	X					X		"	X	X	X													
85784	DUP03	"	X					X		"	X	X	X													X
85785	QWO1	30.4.07		X			X	X		1x Metals 1x Amber	X		X	← don't need metals												
85786	QWO2	1.5.07		X			X	X		"	X		X													
	~~BH8 2.9-3.0~~	"	X																							X

* Metals Required (Delete elements not required): As Cd Cr Cu Ni Pb Zn Hg

Comments:

Lab Report No: E0316084
Esky ID

Relinquished by:
Signed:
Date:

Recieved by:
Signed:
Date:

Relinquished by: Stephen
Signed: SA
Date: 1.45pm

Recieved by:
Signed:
Date:

CUSTOMER CENTRIC - ANALYTICAL CHEMISTS

No. 13542.

Accredited for compliance with ISO/IEC 17025. The results of tests, calibrations and/or measurements included in this document are traceable to Australian/national standards. NATA is a signatory to the APLAC mutual recognition arrangement for the mutual recognition of the equivalence of testing, calibration and inspection reports.

AUSTRALIAN QUARANTINE AND INSPECTION SERVICE

SYDNEY License No. N0356.

Quarantine Approved Premises criteria 5.1 for quarantine containment level 1 (QCI) facilities. Class five criteria cover premises utilised for research, analysis and testing of biological material, soil, animal, plant and human products.

FINAL CERTIFICATE OF ANALYSIS - ENVIRONMENTAL DIVISION

Laboratory Report No:	E031684
Client Name:	HLA - Envirosciences Pty Limited
Client Reference:	Green Square
Contact Name:	Kumar Srinivasan
Chain of Custody No:	ns
Sample Matrix:	SOIL & WATER

Cover Page 1 of 4
plus Sample Results

Date Received: 02/05/2007
Date Reported: 09/05/2007

This Final Certificate of Analysis consists of sample results, DQI's, method descriptions, laboratory definitions, and internationally recognised NATA accreditation and endorsement. The DQO compliance relates specifically to QA/QC results as performed as part of the sample analysis, and may provide an indication of sample result quality. Transfer of report ownership from Labmark to the client shall only occur once full & final payment has been settled and verified. All report copies may be retracted where full payment has not occured within the agreed settlement period.

QUALITY ASSURANCE CRITERIA

Accuracy:	matrix spike:	1 in first 5-20, then 1 every 20 samples
	lcs, crm, method:	1 per analytical batch
	surrogate spike:	addition per target organic method
Precision:	laboratory duplicate:	1 in first 5-10, then 1 every 10 samples
	laboratory triplicate:	re-extracted & reported when duplicate RPD values exceed acceptance criteria
Holding Times:	soils, waters:	Refer to LabMark Preservation & THT table VOC's 14 days water / soil VAC's 7 days water or 14 days acidified VAC's 14 days soil SVOC's 7 days water, 14 days soil Pesticides 7 days water, 14 days soil Metals 6 months general elements Mercury 28 days
Confirmation:	target organic analysis:	GC/MS, or confirmatory column
Sensitivity:	EQL:	Typically 2-5 x Method Detection Limit (MDL)

QUALITY CONTROL GLOBAL ACCEPTANCE CRITERIA (GAC)

Accuracy:	spike, lcs, crm surrogate:	general analytes 70% - 130% recovery phenol analytes 50% - 130% recovery organophosphorous pesticide analytes 60% - 130% recovery phenoxy acid herbicides 50% - 130% recovery
	anion/cation bal:	+/- 10% (0-3 meq/l), +/- 5% (>3 meq/l)
Precision:	method blank:	not detected >95% of the reported EQL
	duplicate lab RPD (metals):	0-30% (>10xEQL), 0-75% (5-10xEQL) 0-100% (<5xEQL)
	duplicate lab RPD:	0-50% (>10xEQL), 0-75% (5-10xEQL) 0-100% (<5xEQL)

QUALITY CONTROL ANALYTE SPECIFIC ACCEPTANCE CRITERIA (ASAC)

Accuracy:	spike, lcs, crm surrogate:	analyte specific recovery data <3xsd of historical mean
Uncertainty:	spike, lcs:	measurement calculated from historical analyte specific control charts

RESULT ANNOTATION

Data Quality Objective	s:	matrix spike recovery	p:	pending	bcs:	batch specific lcs
Data Quality Indicator	d:	laboratory duplicate	lcs:	laboratory control sample	bmb:	batch specific mb
Estimated Quantitation Limit	t:	laboratory triplicate	crm:	certified reference material		
not applicable	r:	RPD relative % difference	mb:	method blank		

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NEPC GUIDELINE COMPLIANCE - DQO

1. GENERAL

A. Results relate specifically to samples as received. Sample results are not corrected for matrix spike, lcs, or surrogate recovery data.

B. EQL's are matrix dependant and may be increased due to sample dilution or matrix interference.

C. Laboratory QA/QC samples are specific to this project.

D. Inter-laboratory proficiency results are available upon request. NATA accreditation details available at www.nata.asn.au.

E. VOC spikes & surrogates added to samples during extraction, SVOC spikes & surrogates added prior to extraction.

F. Recovery data outside GAC limits shall be investigated and compared to ASAC (historical mean +/- 3sd). If recovery data <20%, then the relevant results for that compound are considered not reliable.

G. Recovery data (ms, surrogate, crm, lcs) outside ASAC limits shall initiate an investigative action. Anomolous QC data is examined in conjunction with other QC samples and a final decision whether to accept or reject results is provided by the professional judgement of the senior analyst. The USEPA-CLP National Functional Guidelines are referred to for specific recommendations.

H. Extraction (preparation) date refers to the date that sample preparation was initiated. Note that certain methods not requiring sample preparation (eg. VOCs in water, etc) may report a common extraction and analysis date.

I. LabMark shall maintain an official copy of this Certificate of Analysis for all tracable reference purposes.

2. CHAIN OF CUSTODY (COC) & SAMPLE RECEIPT NOTICE (SRN) REQUIREMENTS

A. SRN issued to client upon sample receipt & login verification.

B. Preservation & sampling date details specified on COC and SRN, unless noted.

C. Sample Integrity & Validated Time of Sample Receipt (VTSR) Holding Times verified (preservation may extend holding time, refer to preservation chart).

3. NATA ACCREDITED METHODS

A. NATA accreditation held for each in-house method and sample matrix type reported, unless noted below (Refer to subcontracted test reports for NATA accreditation status).

B. NATA accredited in-house laboratory methods are referenced from NEPC, ASTM, modified USEPA / APHA documents. Corporate Accreditation No. 13542.

C. Subcontracted analyses: Refer to Sample Receipt Notice and additional DQO comments.

Reported by Aust. Safer Env & Tech., NATA accreditation No. 14484

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4. QA/QC FREQUENCY COMPLIANCE TABLE SPECIFIC TO THIS REPORT

Matrix: **SOIL**

Page:	Method:	Totals:	#d	%d-ratio	#t	#s	%s-ratio
1	BTEX by P&T	10	1	10%	0	1	10%
1	Volatile TPH by P&T (vTPH)	10	1	10%	0	1	10%
3	Petroleum Hydrocarbons (TPH)	10	1	10%	0	1	10%
7	Polyaromatic Hydrocarbons (PAH)	8	1	13%	0	1	13%
10	Phenols by GC/MS	1	0	0%	0	0	0%
11	Organochlorine Pesticides (OC)	3	0	0%	0	0	0%
12	Organophosphorus Pesticides (OP)	3	0	0%	0	0	0%
13	Polychlorinated Biphenyls (PCB)	3	0	0%	0	0	0%
14	Acid extractable metals (M7)	10	1	10%	0	1	10%
16	Acid extractable mercury	10	1	10%	0	1	10%
17	Semivolatile Organic Compounds (SVOC)	2	0	0%	0	0	0%
23	Moisture	11	--	--	--	--	--

Matrix: **WATER**

Page:	Method:	Totals:	#d	%d-ratio	#t	#s	%s-ratio
5	Volatile TPH by P&T (vTPH)	2	0	0%	0	0	0%
5	BTEX by P&T	2	0	0%	0	0	0%
6	Petroleum Hydrocarbons (TPH)	2	0	0%	0	0	0%
9	Polyaromatic Hydrocarbons (PAH)	2	0	0%	0	0	0%

GLOSSARY:

#d	number of discrete duplicate extractions/analyses performed.
%d-ratio	NEPC guideline for laboratory duplicates is 1 in 10 samples (min 10%).
#t	number of triplicate extractions/analyses performed.
#s	number of spiked samples analysed.
%s-ratio	USEPA guideline for laboratory matrix spikes is 1 in 20 samples (min 5%).

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5. ADDITIONAL COMMENTS SPECIFIC TO THIS REPORT

A. All tests were conducted by LabMark Environmental Sydney, NATA accreditation No. 13542, Corporate Site No. 13535., unless indicated below.
B. The following test was conducted by Aust. Safer Env & Tech., NATA accreditation No. 14484 :- ASBESTOS
C. SVOC's; lcs recovery range is 33% - 125%.
D. Refer to LabMark historical control chart recovery range data. QA/QC (SVOC) results reported within 3sd of the historical analyte specific mean results, and therefore considered acceptable for laboratory release. One compound, Bis(2-chloroethyl)ether is outside the 3sd historical data range.

Laboratory QA/QC data shall relate specifically to this report, and may provide an indication of site specific sample result quality. LabMark DOES NOT report NON-RELEVANT BATCH QA/QC data. Acceptance of this self assessment certificate does not preclude any requirement for a QA/QC review by a accredited contaminated site EPA auditor, when and wherever necessary. Laboratory QA/QC self assessment references available upon request.

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HISTORICAL CONTROL CHART DATA - QA/QC

Sydney

Analyte mean and standard deviation

SVOC_S

For the period: 01/01/06 12:00:00 AM to 30/12/06 11:59:59 PM

SPIKES

Analyte Name	n	Mean	1 SD	Range	2 SD	Range	3 SD	Range
1,2,4,5-tetrachlorobenzene	34	91	12	79 to 103	24	67 to 115	36	55 to 127
1,2,4-trichlorobenzene	34	90	12	78 to 102	24	66 to 114	36	54 to 126
1,2-dichlorobenzene	34	91	11	80 to 102	22	69 to 113	33	58 to 124
1,3-dichlorobenzene	34	91	12	79 to 103	24	67 to 115	36	55 to 127
1,4-dichlorobenzene	33	89	11	78 to 100	22	67 to 111	33	56 to 122
1,4-dinitrobenzene	34	78	13	65 to 91	26	52 to 104	39	39 to 117
1-naphthylamine	26	71	27	44 to 98	54	17 to 125	81	0 to 152
2,3,4,6-tetrachlorophenol	35	77	14	63 to 91	28	49 to 105	42	35 to 119
2,4,5-trichlorophenol	35	88	14	74 to 102	28	60 to 116	42	46 to 130
2,4,6-trichlorophenol	35	86	15	71 to 101	30	56 to 116	45	41 to 131
2,4-dichlorophenol	34	85	14	71 to 99	28	57 to 113	42	43 to 127
2,4-dimethylphenol	33	83	23	60 to 106	46	37 to 129	69	14 to 152
2,4-dinitrotoluene	35	78	13	65 to 91	26	52 to 104	39	39 to 117
2,6-dichlorophenol	34	88	12	76 to 100	24	64 to 112	36	52 to 124
2,6-dinitrotoluene	35	83	14	69 to 97	28	55 to 111	42	41 to 125
2-(acetylamino) fluorene	34	85	15	70 to 100	30	55 to 115	45	40 to 130
2-chloronaphthalene	35	91	11	80 to 102	22	69 to 113	33	58 to 124
2-chlorophenol	35	88	13	75 to 101	26	62 to 114	39	49 to 127
2-FBP (Surr @ 5mg/kg)	36	89	10	79 to 99	20	69 to 109	30	59 to 119
2-FP (Surr @ 5mg/kg)	36	85	16	69 to 101	32	53 to 117	48	37 to 133
2-methylnaphthalene	34	91	10	81 to 101	20	71 to 111	30	61 to 121
2-methylphenol	34	89	20	69 to 109	40	49 to 129	60	29 to 149
2-naphthylamine	26	63	30	33 to 93	60	3 to 123	90	0 to 153
2-nitroaniline	35	83	13	70 to 96	26	57 to 109	39	44 to 122
2-nitrophenol	35	87	13	74 to 100	26	61 to 113	39	48 to 126
3-&4-methylphenol	35	84	14	70 to 98	28	56 to 112	42	42 to 126
3-methylcholanthrene	34	94	13	81 to 107	26	68 to 120	39	55 to 133
3-nitroaniline	34	67	17	50 to 84	34	33 to 101	51	16 to 118
4,4-DDD	8	96	17	79 to 113	34	62 to 130	51	45 to 147
4,4-DDE	8	107	8	99 to 115	16	91 to 123	24	83 to 131
4,4-DDT	8	100	20	80 to 120	40	60 to 140	60	40 to 160
4-(dimethylamino) azobenzene	35	82	16	66 to 98	32	50 to 114	48	34 to 130
4-aminobiphenyl	34	87	13	74 to 100	26	61 to 113	39	48 to 126
4-bromophenyl phenyl ether	35	92	10	82 to 102	20	72 to 112	30	62 to 122
4-chloro-3-methylphenol	34	86	11	75 to 97	22	64 to 108	33	53 to 119
4-chloroaniline	31	81	20	61 to 101	40	41 to 121	60	21 to 141
4-chlorophenyl phenyl ether	35	89	10	79 to 99	20	69 to 109	30	59 to 119
4-nitroaniline	33	81	20	61 to 101	40	41 to 121	60	21 to 141
5-nitro-o-toluidine	35	91	9	82 to 100	18	73 to 109	27	64 to 118
7,12-dimethylbenz(a)anthracene	32	62	26	36 to 88	52	10 to 114	78	0 to 140
a-BHC	8	100	10	90 to 110	20	80 to 120	30	70 to 130
Acenaphthene	35	90	10	80 to 100	20	70 to 110	30	60 to 120
Acenaphthylene	35	91	13	78 to 104	26	65 to 117	39	52 to 130
Acetophenone	34	89	13	76 to 102	26	63 to 115	39	50 to 128
Aldrin	8	101	7	94 to 108	14	87 to 115	21	80 to 122

Aniline	**31**	**79**	19	60 to 98	38	41 to 117	57	22 to 136
Anthracene	**34**	**92**	11	81 to 103	22	70 to 114	33	59 to 125
Azinophos methyl	**8**	**100**	16	84 to 116	32	68 to 132	48	52 to 148
Azobenzene	**35**	**90**	8	82 to 98	16	74 to 106	24	66 to 114
b-BHC	**8**	**96**	28	68 to 124	56	40 to 152	84	12 to 180
Benz(a)anthracene	**34**	**90**	13	77 to 103	26	64 to 116	39	51 to 129
Benzo(a) pyrene	**32**	**94**	11	83 to 105	22	72 to 116	33	61 to 127
Benzo(b)&(k)fluoranthene	**33**	**95**	12	83 to 107	24	71 to 119	36	59 to 131
Benzo(g,h,i)perylene	**32**	**91**	10	81 to 101	20	71 to 111	30	61 to 121
Benzyl alcohol	**35**	**84**	18	66 to 102	36	48 to 120	54	30 to 138
Bis(2-chloroethoxy) methane	**35**	**91**	13	78 to 104	26	65 to 117	39	52 to 130
Bis(2-chloroethyl)ether	**34**	**93**	14	79 to 107	28	65 to 121	42	51 to 135
Bis(2-chloroisopropyl) ether	**35**	**92**	12	80 to 104	24	68 to 116	36	56 to 128
Bis(2-ethylhexyl) phthalate	**34**	**92**	15	77 to 107	30	62 to 122	45	47 to 137
Butyl benzyl phthalate	**35**	**92**	12	80 to 104	24	68 to 116	36	56 to 128
Carbazole	**35**	**90**	9	81 to 99	18	72 to 108	27	63 to 117
Chlorpyrifos	**8**	**101**	7	94 to 108	14	87 to 115	21	80 to 122
Chrysene	**34**	**88**	13	75 to 101	26	62 to 114	39	49 to 127
cis-chlordane	**8**	**98**	6	92 to 104	12	86 to 110	18	80 to 116
Coumaphos	**8**	**107**	15	92 to 122	30	77 to 137	45	62 to 152
d-BHC	**8**	**96**	14	82 to 110	28	68 to 124	42	54 to 138
Demeton-O	**8**	**91**	9	82 to 100	18	73 to 109	27	64 to 118
Demeton-S	**8**	**95**	9	86 to 104	18	77 to 113	27	68 to 122
Di-n-butyl phthalate	**35**	**95**	11	84 to 106	22	73 to 117	33	62 to 128
Di-n-octyl phthalate	**34**	**90**	19	71 to 109	38	52 to 128	57	33 to 147
Diazinon	**8**	**91**	5	86 to 96	10	81 to 101	15	76 to 106
Dibenz(a,h)anthracene	**33**	**91**	10	81 to 101	20	71 to 111	30	61 to 121
Dibenzofuran	**35**	**91**	8	83 to 99	16	75 to 107	24	67 to 115
Dichlorvos	**8**	**108**	14	94 to 122	28	80 to 136	42	66 to 150
Dieldrin	**8**	**101**	6	95 to 107	12	89 to 113	18	83 to 119
Diethylphthalate	**35**	**89**	10	79 to 99	20	69 to 109	30	59 to 119
Dimethoate	**8**	**92**	7	85 to 99	14	78 to 106	21	71 to 113
Dimethyl phthalate	**35**	**90**	10	80 to 100	20	70 to 110	30	60 to 120
Diphenylamine	**34**	**86**	13	73 to 99	26	60 to 112	39	47 to 125
Disulfoton	**8**	**99**	9	90 to 108	18	81 to 117	27	72 to 126
Endosulfan I	**8**	**104**	7	97 to 111	14	90 to 118	21	83 to 125
Endosulfan II	**8**	**104**	15	89 to 119	30	74 to 134	45	59 to 149
Endosulfan sulphate	**8**	**91**	19	72 to 110	38	53 to 129	57	34 to 148
Endrin	**8**	**95**	25	70 to 120	50	45 to 145	75	20 to 170
Endrin aldehyde	**8**	**94**	27	67 to 121	54	40 to 148	81	13 to 175
Endrin ketone	**7**	**99**	9	90 to 108	18	81 to 117	27	72 to 126
EPN	**8**	**103**	9	94 to 112	18	85 to 121	27	76 to 130
Ethoprop	**8**	**96**	8	88 to 104	16	80 to 112	24	72 to 120
Ethyl methanesulfonate	**34**	**95**	14	81 to 109	28	67 to 123	42	53 to 137
Fenitrothion	**8**	**93**	10	83 to 103	20	73 to 113	30	63 to 123
Fensulfothion	**8**	**98**	11	87 to 109	22	76 to 120	33	65 to 131
Fenthion	**8**	**99**	8	91 to 107	16	83 to 115	24	75 to 123
Fluoranthene	**34**	**93**	12	81 to 105	24	69 to 117	36	57 to 129
Fluorene	**35**	**88**	10	78 to 98	20	68 to 108	30	58 to 118
g-BHC (Lindane)	**8**	**93**	27	66 to 120	54	39 to 147	81	12 to 174
Heptachlor	**8**	**94**	23	71 to 117	46	48 to 140	69	25 to 163
Heptachlor epoxide	**8**	**99**	10	89 to 109	20	79 to 119	30	69 to 129
Hexachlorobenzene	**29**	**83**	13	70 to 96	26	57 to 109	39	44 to 122

Hexachlorobutadiene	**34**	**92**	9	83 to 101	18	74 to 110	27	65 to 119
Hexachlorocyclopentadiene	**29**	**54**	35	19 to 89	70	0 to 124	105	0 to 159
Hexachloroethane	**33**	**84**	13	71 to 97	26	58 to 110	39	45 to 123
Hexachloropropene	**34**	**72**	17	55 to 89	34	38 to 106	51	21 to 123
Indeno(1,2,3-c,d)pyrene	**32**	**89**	11	78 to 100	22	67 to 111	33	56 to 122
Isophorone	**35**	**94**	13	81 to 107	26	68 to 120	39	55 to 133
Isosafrole	**35**	**91**	12	79 to 103	24	67 to 115	36	55 to 127
Malathion	**8**	**97**	7	90 to 104	14	83 to 111	21	76 to 118
Methoxychlor	**8**	**97**	18	79 to 115	36	61 to 133	54	43 to 151
Methyl methanesulfonate	**35**	**85**	14	71 to 99	28	57 to 113	42	43 to 127
Methyl parathion	**8**	**91**	11	80 to 102	22	69 to 113	33	58 to 124
Mevinphos (Phosdrin)	**8**	**93**	10	83 to 103	20	73 to 113	30	63 to 123
N-nitrosodi-n-butylamine	**34**	**91**	15	76 to 106	30	61 to 121	45	46 to 136
N-nitrosodi-n-propylamine	**35**	**88**	21	67 to 109	42	46 to 130	63	25 to 151
N-nitrosodiethylamine	**35**	**97**	13	84 to 110	26	71 to 123	39	58 to 136
N-nitrosomorpholine	**33**	**90**	13	77 to 103	26	64 to 116	39	51 to 129
N-nitrosopiperidine	**35**	**94**	13	81 to 107	26	68 to 120	39	55 to 133
N-nitrosopyrrolidine	**33**	**94**	20	74 to 114	40	54 to 134	60	34 to 154
Naled (Dibrom)	**8**	**88**	14	74 to 102	28	60 to 116	42	46 to 130
Naphthalene	**34**	**92**	12	80 to 104	24	68 to 116	36	56 to 128
NB-d5 (Surr @ 5mg/kg)	**36**	**86**	7	79 to 93	14	72 to 100	21	65 to 107
Nitrobenzene	**34**	**95**	12	83 to 107	24	71 to 119	36	59 to 131
o-toluidine	**32**	**85**	23	62 to 108	46	39 to 131	69	16 to 154
Parathion	**8**	**96**	11	85 to 107	22	74 to 118	33	63 to 129
Pentachlorobenzene	**34**	**90**	10	80 to 100	20	70 to 110	30	60 to 120
Pentachloroethane	**34**	**89**	11	78 to 100	22	67 to 111	33	56 to 122
Pentachloronitrobenzene	**35**	**87**	12	75 to 99	24	63 to 111	36	51 to 123
Pentachlorophenol	**35**	**74**	25	49 to 99	50	24 to 124	75	0 to 149
Phenacetin	**35**	**74**	16	58 to 90	32	42 to 106	48	26 to 122
Phenanthrene	**33**	**93**	12	81 to 105	24	69 to 117	36	57 to 129
Phenol	**35**	**90**	13	77 to 103	26	64 to 116	39	51 to 129
Phenol-d5 (Surr @ 5mg/kg)	**36**	**84**	12	72 to 96	24	60 to 108	36	48 to 120
Phorate	**8**	**97**	11	86 to 108	22	75 to 119	33	64 to 130
Profenofos	**8**	**103**	7	96 to 110	14	89 to 117	21	82 to 124
Prothiofos	**8**	**105**	7	98 to 112	14	91 to 119	21	84 to 126
Pyrene	**34**	**91**	14	77 to 105	28	63 to 119	42	49 to 133
Ronnel	**8**	**101**	5	96 to 106	10	91 to 111	15	86 to 116
Safrole	**35**	**89**	11	78 to 100	22	67 to 111	33	56 to 122
Stirophos	**8**	**95**	10	85 to 105	20	75 to 115	30	65 to 125
Sulfotepp	**8**	**94**	8	86 to 102	16	78 to 110	24	70 to 118
TP-d14 (Surr @ 5mg/kg)	**36**	**88**	11	77 to 99	22	66 to 110	33	55 to 121
trans-chlordane	**8**	**100**	6	94 to 106	12	88 to 112	18	82 to 118
Trichloronate	**8**	**103**	8	95 to 111	16	87 to 119	24	79 to 127

LCS_S

Analyte Name	**n**	**Mean**	1 SD	Range	2 SD	Range	3 SD	Range
1,2,4,5-tetrachlorobenzene	**82**	**92**	10	82 to 102	20	72 to 112	30	62 to 122
1,2,4-trichlorobenzene	**82**	**93**	8	85 to 101	16	77 to 109	24	69 to 117
1,2-dichlorobenzene	**82**	**95**	10	85 to 105	20	75 to 115	30	65 to 125
1,3-dichlorobenzene	**82**	**95**	10	85 to 105	20	75 to 115	30	65 to 125
1,4-dichlorobenzene	**82**	**93**	9	84 to 102	18	75 to 111	27	66 to 120
1,4-dinitrobenzene	**82**	**84**	11	73 to 95	22	62 to 106	33	51 to 117
1-naphthylamine	**81**	**88**	26	62 to 114	52	36 to 140	78	10 to 166
2,3,4,6-tetrachlorophenol	**82**	**73**	14	59 to 87	28	45 to 101	42	31 to 115

2,4,5-trichlorophenol	**83**	**84**	10	74 to 94	20	64 to 104	30	54 to 114
2,4,6-trichlorophenol	**82**	**83**	10	73 to 93	20	63 to 103	30	53 to 113
2,4-dichlorophenol	**82**	**91**	9	82 to 100	18	73 to 109	27	64 to 118
2,4-dimethylphenol	**82**	**90**	11	79 to 101	22	68 to 112	33	57 to 123
2,4-dinitrotoluene	**83**	**83**	10	73 to 93	20	63 to 103	30	53 to 113
2,6-dichlorophenol	**82**	**91**	9	82 to 100	18	73 to 109	27	64 to 118
2,6-dinitrotoluene	**82**	**87**	10	77 to 97	20	67 to 107	30	57 to 117
2-(acetylamino) fluorene	**82**	**73**	13	60 to 86	26	47 to 99	39	34 to 112
2-chloronaphthalene	**82**	**93**	8	85 to 101	16	77 to 109	24	69 to 117
2-chlorophenol	**82**	**94**	10	84 to 104	20	74 to 114	30	64 to 124
2-FBP (Surr @ 5mg/kg)	**83**	**92**	8	84 to 100	16	76 to 108	24	68 to 116
2-FP (Surr @ 5mg/kg)	**83**	**94**	15	79 to 109	30	64 to 124	45	49 to 139
2-methylnaphthalene	**82**	**93**	8	85 to 101	16	77 to 109	24	69 to 117
2-methylphenol	**82**	**91**	10	81 to 101	20	71 to 111	30	61 to 121
2-naphthylamine	**82**	**69**	34	35 to 103	68	1 to 137	102	0 to 171
2-nitroaniline	**82**	**83**	11	72 to 94	22	61 to 105	33	50 to 116
2-nitrophenol	**82**	**86**	13	73 to 99	26	60 to 112	39	47 to 125
3-&4-methylphenol	**82**	**92**	11	81 to 103	22	70 to 114	33	59 to 125
3-methylcholanthrene	**82**	**94**	11	83 to 105	22	72 to 116	33	61 to 127
3-nitroaniline	**81**	**82**	15	67 to 97	30	52 to 112	45	37 to 127
4,4-DDD	**22**	**101**	9	92 to 110	18	83 to 119	27	74 to 128
4,4-DDE	**22**	**98**	8	90 to 106	16	82 to 114	24	74 to 122
4,4-DDT	**22**	**100**	16	84 to 116	32	68 to 132	48	52 to 148
4-(dimethylamino) azobenzene	**82**	**83**	11	72 to 94	22	61 to 105	33	50 to 116
4-aminobiphenyl	**82**	**92**	9	83 to 101	18	74 to 110	27	65 to 119
4-bromophenyl phenyl ether	**82**	**92**	8	84 to 100	16	76 to 108	24	68 to 116
4-chloro-3-methylphenol	**82**	**89**	9	80 to 98	18	71 to 107	27	62 to 116
4-chloroaniline	**82**	**76**	21	55 to 97	42	34 to 118	63	13 to 139
4-chlorophenyl phenyl ether	**82**	**93**	8	85 to 101	16	77 to 109	24	69 to 117
4-nitroaniline	**82**	**84**	12	72 to 96	24	60 to 108	36	48 to 120
5-nitro-o-toluidine	**82**	**94**	8	86 to 102	16	78 to 110	24	70 to 118
7,12-dimethylbenz(a)anthracene	**82**	**76**	16	60 to 92	32	44 to 108	48	28 to 124
a-BHC	**22**	**99**	9	90 to 108	18	81 to 117	27	72 to 126
Acenaphthene	**82**	**94**	8	86 to 102	16	78 to 110	24	70 to 118
Acenaphthylene	**82**	**92**	9	83 to 101	18	74 to 110	27	65 to 119
Acetophenone	**82**	**91**	10	81 to 101	20	71 to 111	30	61 to 121
Aldrin	**22**	**98**	7	91 to 105	14	84 to 112	21	77 to 119
Aniline	**82**	**74**	22	52 to 96	44	30 to 118	66	8 to 140
Anthracene	**82**	**93**	8	85 to 101	16	77 to 109	24	69 to 117
Azinophos methyl	**22**	**91**	18	73 to 109	36	55 to 127	54	37 to 145
Azobenzene	**82**	**92**	9	83 to 101	18	74 to 110	27	65 to 119
b-BHC	**22**	**99**	12	87 to 111	24	75 to 123	36	63 to 135
Benz(a)anthracene	**82**	**91**	8	83 to 99	16	75 to 107	24	67 to 115
Benzo(a) pyrene	**82**	**92**	11	81 to 103	22	70 to 114	33	59 to 125
Benzo(b)&(k)fluoranthene	**82**	**95**	11	84 to 106	22	73 to 117	33	62 to 128
Benzo(g,h,i)perylene	**82**	**93**	11	82 to 104	22	71 to 115	33	60 to 126
Benzyl alcohol	**82**	**91**	12	79 to 103	24	67 to 115	36	55 to 127
Bis(2-chloroethoxy) methane	**82**	**94**	10	84 to 104	20	74 to 114	30	64 to 124
Bis(2-chloroethyl)ether	**82**	**91**	12	79 to 103	24	67 to 115	36	55 to 127
Bis(2-chloroisopropyl) ether	**82**	**95**	10	85 to 105	20	75 to 115	30	65 to 125
Bis(2-ethylhexyl) phthalate	**81**	**85**	15	70 to 100	30	55 to 115	45	40 to 130
Butyl benzyl phthalate	**82**	**87**	10	77 to 97	20	67 to 107	30	57 to 117
Carbazole	**82**	**93**	8	85 to 101	16	77 to 109	24	69 to 117

Chlorpyrifos	**22**	**98**	8	90 to 106	16	82 to 114	24	74 to 122
Chrysene	**82**	**93**	10	83 to 103	20	73 to 113	30	63 to 123
cis-chlordane	**22**	**98**	9	89 to 107	18	80 to 116	27	71 to 125
Coumaphos	**22**	**95**	13	82 to 108	26	69 to 121	39	56 to 134
d-BHC	**22**	**97**	8	89 to 105	16	81 to 113	24	73 to 121
Demeton-O	**22**	**97**	8	89 to 105	16	81 to 113	24	73 to 121
Demeton-S	**22**	**94**	7	87 to 101	14	80 to 108	21	73 to 115
Di-n-butyl phthalate	**82**	**92**	11	81 to 103	22	70 to 114	33	59 to 125
Di-n-octyl phthalate	**82**	**86**	12	74 to 98	24	62 to 110	36	50 to 122
Diazinon	**22**	**87**	8	79 to 95	16	71 to 103	24	63 to 111
Dibenz(a,h)anthracene	**82**	**91**	10	81 to 101	20	71 to 111	30	61 to 121
Dibenzofuran	**82**	**93**	8	85 to 101	16	77 to 109	24	69 to 117
Dichlorvos	**22**	**101**	8	93 to 109	16	85 to 117	24	77 to 125
Dieldrin	**22**	**98**	7	91 to 105	14	84 to 112	21	77 to 119
Diethylphthalate	**82**	**93**	9	84 to 102	18	75 to 111	27	66 to 120
Dimethoate	**22**	**94**	9	85 to 103	18	76 to 112	27	67 to 121
Dimethyl phthalate	**82**	**92**	9	83 to 101	18	74 to 110	27	65 to 119
Diphenylamine	**82**	**91**	9	82 to 100	18	73 to 109	27	64 to 118
Disulfoton	**22**	**95**	7	88 to 102	14	81 to 109	21	74 to 116
Endosulfan I	**22**	**100**	7	93 to 107	14	86 to 114	21	79 to 121
Endosulfan II	**22**	**102**	9	93 to 111	18	84 to 120	27	75 to 129
Endosulfan sulphate	**22**	**101**	10	91 to 111	20	81 to 121	30	71 to 131
Endrin	**22**	**101**	13	88 to 114	26	75 to 127	39	62 to 140
Endrin aldehyde	**22**	**98**	14	84 to 112	28	70 to 126	42	56 to 140
Endrin ketone	**22**	**98**	13	85 to 111	26	72 to 124	39	59 to 137
EPN	**22**	**92**	12	80 to 104	24	68 to 116	36	56 to 128
Ethoprop	**22**	**98**	8	90 to 106	16	82 to 114	24	74 to 122
Ethyl methanesulfonate	**82**	**95**	16	79 to 111	32	63 to 127	48	47 to 143
Fenitrothion	**22**	**90**	10	80 to 100	20	70 to 110	30	60 to 120
Fensulfothion	**22**	**84**	16	68 to 100	32	52 to 116	48	36 to 132
Fenthion	**22**	**99**	8	91 to 107	16	83 to 115	24	75 to 123
Fluoranthene	**82**	**93**	9	84 to 102	18	75 to 111	27	66 to 120
Fluorene	**82**	**93**	9	84 to 102	18	75 to 111	27	66 to 120
g-BHC (Lindane)	**22**	**99**	8	91 to 107	16	83 to 115	24	75 to 123
Heptachlor	**22**	**102**	12	90 to 114	24	78 to 126	36	66 to 138
Heptachlor epoxide	**22**	**97**	8	89 to 105	16	81 to 113	24	73 to 121
Hexachlorobenzene	**78**	**86**	10	76 to 96	20	66 to 106	30	56 to 116
Hexachlorobutadiene	**83**	**94**	8	86 to 102	16	78 to 110	24	70 to 118
Hexachlorocyclopentadiene	**82**	**74**	29	45 to 103	58	16 to 132	87	0 to 161
Hexachloroethane	**82**	**92**	10	82 to 102	20	72 to 112	30	62 to 122
Hexachloropropene	**82**	**87**	14	73 to 101	28	59 to 115	42	45 to 129
Indeno(1,2,3-c,d)pyrene	**82**	**92**	11	81 to 103	22	70 to 114	33	59 to 125
Isophorone	**82**	**94**	10	84 to 104	20	74 to 114	30	64 to 124
Isosafrole	**82**	**91**	9	82 to 100	18	73 to 109	27	64 to 118
Malathion	**22**	**98**	8	90 to 106	16	82 to 114	24	74 to 122
Methoxychlor	**25**	**99**	17	82 to 116	34	65 to 133	51	48 to 150
Methyl methanesulfonate	**81**	**94**	15	79 to 109	30	64 to 124	45	49 to 139
Methyl parathion	**22**	**84**	11	73 to 95	22	62 to 106	33	51 to 117
Mevinphos (Phosdrin)	**22**	**97**	9	88 to 106	18	79 to 115	27	70 to 124
N-nitrosodi-n-butylamine	**82**	**91**	11	80 to 102	22	69 to 113	33	58 to 124
N-nitrosodi-n-propylamine	**82**	**89**	17	72 to 106	34	55 to 123	51	38 to 140
N-nitrosodiethylamine	**82**	**94**	17	77 to 111	34	60 to 128	51	43 to 145
N-nitrosomorpholine	**82**	**92**	10	82 to 102	20	72 to 112	30	62 to 122

N-nitrosopiperidine	**82**	**94**	10	84 to 104	20	74 to 114	30	64 to 124
N-nitrosopyrrolidine	**82**	**95**	15	80 to 110	30	65 to 125	45	50 to 140
Naled (Dibrom)	**21**	**103**	21	82 to 124	42	61 to 145	63	40 to 166
Naphthalene	**82**	**95**	8	87 to 103	16	79 to 111	24	71 to 119
NB-d5 (Surr @ 5mg/kg)	**83**	**91**	9	82 to 100	18	73 to 109	27	64 to 118
Nitrobenzene	**82**	**95**	10	85 to 105	20	75 to 115	30	65 to 125
o-toluidine	**82**	**79**	25	54 to 104	50	29 to 129	75	4 to 154
Parathion	**22**	**90**	10	80 to 100	20	70 to 110	30	60 to 120
Pentachlorobenzene	**82**	**92**	8	84 to 100	16	76 to 108	24	68 to 116
Pentachloroethane	**82**	**92**	11	81 to 103	22	70 to 114	33	59 to 125
Pentachloronitrobenzene	**82**	**86**	10	76 to 96	20	66 to 106	30	56 to 116
Pentachlorophenol	**80**	**70**	16	54 to 86	32	38 to 102	48	22 to 118
Phenacetin	**82**	**77**	12	65 to 89	24	53 to 101	36	41 to 113
Phenanthrene	**82**	**93**	8	85 to 101	16	77 to 109	24	69 to 117
Phenol	**82**	**94**	10	84 to 104	20	74 to 114	30	64 to 124
Phenol-d5 (Surr @ 5mg/kg)	**83**	**90**	10	80 to 100	20	70 to 110	30	60 to 120
Phorate	**22**	**100**	8	92 to 108	16	84 to 116	24	76 to 124
Profenofos	**22**	**91**	10	81 to 101	20	71 to 111	30	61 to 121
Prothiofos	**22**	**95**	8	87 to 103	16	79 to 111	24	71 to 119
Pyrene	**82**	**93**	10	83 to 103	20	73 to 113	30	63 to 123
Ronnel	**22**	**97**	8	89 to 105	16	81 to 113	24	73 to 121
Safrole	**82**	**90**	9	81 to 99	18	72 to 108	27	63 to 117
Stirophos	**22**	**97**	16	81 to 113	32	65 to 129	48	49 to 145
Sulfotepp	**22**	**99**	8	91 to 107	16	83 to 115	24	75 to 123
TP-d14 (Surr @ 5mg/kg)	**83**	**93**	9	84 to 102	18	75 to 111	27	66 to 120
trans-chlordane	**22**	**98**	8	90 to 106	16	82 to 114	24	74 to 122
Trichloronate	**22**	**98**	8	90 to 106	16	82 to 114	24	74 to 122

Laboratory Report No: E031684
Client Name: HLA - Envirosciences Pty Limited
Contact Name: Kumar Srinivasan
Client Reference Green Square S4075802

Date: 09/05/07
This report supercedes reports issued on: N/A

Final
Certificate
of Analysis

Laboratory Identification		**85768**	**85770**	**85772**	**85773**	**85776**	**85778**	**85779**	**85781**	**85783**	**85784**
Sample Identification		BH1	BH1	BH5	BH5	BH2	BH3	BH3	BH8	BH8	DUP03
Depth (m)		0.5-0.7	1.3-1.5	0.5-0.7	0.6-0.8	1.3-1.5	0.2-0.4	0.7-0.9	0.2-0.4	2.6-2.9	--
Sampling Date recorded on COC		30/4/07	30/4/07	30/4/07	30/4/07	1/5/07	1/5/07	1/5/07	1/5/07	1/5/07	1/5/07
Laboratory Extraction (Preparation) Date		4/5/07	4/5/07	4/5/07	4/5/07	4/5/07	4/5/07	4/5/07	4/5/07	4/5/07	4/5/07
Laboratory Analysis Date		7/5/07	7/5/07	7/5/07	7/5/07	7/5/07	7/5/07	7/5/07	7/5/07	7/5/07	7/5/07
Method : E002.2											
BTEX by P&T	**EQL**										
Benzene	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
meta- and para-Xylene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ortho-Xylene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Xylene	--	--	--	--	--	--	--	--	--	--	--
CDFB (Surr @ 10mg/kg)	--	*106%*	*106%*	*106%*	*106%*	*102%*	*105%*	*104%*	*105%*	*104%*	*107%*
Method : E003.2											
Volatile TPH by P&T (vTPH)	**EQL**										
C6 - C9 Fraction	10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E003.2: 8-10g soil extracted with 20ml methanol. Analysis by P&T/GC/FID.
E002.2: 8-10g soil extracted with 20ml methanol. Analysis by P&T/GC/PID/MSD.

Laboratory Identification		**85770d**	**85770r**	**85773s**	**lcs**	**mb**					
Sample Identification		QC	QC	QC	QC	QC					
Depth (m)		--	--	--	--	--					
Sampling Date recorded on COC		--	--	--	--	--					
Laboratory Extraction (Preparation) Date		4/5/07	--	4/5/07	4/5/07	4/5/07					
Laboratory Analysis Date		7/5/07	--	7/5/07	7/5/07	7/5/07					
Method : E002.2											
BTEX by P&T	**EQL**										
Benzene	0.2	<0.2	--	98%	99%	<0.2					
Toluene	0.5	<0.5	--	97%	96%	<0.5					
Ethylbenzene	0.5	<0.5	--	94%	95%	<0.5					
meta- and para-Xylene	1	<1	--	95%	96%	<1					
ortho-Xylene	0.5	<0.5	--	97%	97%	<0.5					
Total Xylene	--	--	--	--	--	--					
CDFB (Surr @ 10mg/kg)	--	*107%*	*1%*	*109%*	*110%*	*106%*					
Method : E003.2											
Volatile TPH by P&T (vTPH)	**EQL**										
C6 - C9 Fraction	10	<10	--	86%	94%	<10					

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E003.2: 8-10g soil extracted with 20ml methanol. Analysis by P&T/GC/FID.
E002.2: 8-10g soil extracted with 20ml methanol. Analysis by P&T/GC/PID/MSD.

Laboratory Identification		**85768**	**85770**	**85772**	**85773**	**85776**	**85778**	**85779**	**85781**	**85783**	**85784**
Sample Identification		BH1	BH1	BH5	BH5	BH2	BH3	BH3	BH8	BH8	DUP03
Depth (m)		0.5-0.7	1.3-1.5	0.5-0.7	0.6-0.8	1.3-1.5	0.2-0.4	0.7-0.9	0.2-0.4	2.6-2.9	--
Sampling Date recorded on COC		30/4/07	30/4/07	30/4/07	30/4/07	1/5/07	1/5/07	1/5/07	1/5/07	1/5/07	1/5/07
Laboratory Extraction (Preparation) Date		4/5/07	4/5/07	4/5/07	4/5/07	4/5/07	4/5/07	4/5/07	4/5/07	4/5/07	4/5/07
Laboratory Analysis Date		7/5/07	7/5/07	7/5/07	7/5/07	7/5/07	7/5/07	7/5/07	7/5/07	7/5/07	7/5/07
Method : E006.2											
Petroleum Hydrocarbons (TPH)	**EQL**										
C10 - C14 Fraction	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
C15 - C28 Fraction	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
C29 - C36 Fraction	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Sum of TPH C10 - C36	--	--	--	--	--	--	--	--	--	--	--

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E006.2: 8-10g soil extracted with 20ml DCM/Acetone (8:2). Analysis by GC/FID.

Laboratory Identification		**85770d**	**85770r**	**85773s**	**lcs**	**mb**					
Sample Identification		QC	QC	QC	QC	QC					
Depth (m)		--	--	--	--	--					
Sampling Date recorded on COC		--	--	--	--	--					
Laboratory Extraction (Preparation) Date		4/5/07	--	4/5/07	4/5/07	4/5/07					
Laboratory Analysis Date		7/5/07	--	7/5/07	5/5/07	5/5/07					
Method : E006.2											
Petroleum Hydrocarbons (TPH)	**EQL**										
C10 - C14 Fraction	50	<50	--	--	--	<50					
C15 - C28 Fraction	100	<100	--	89%	101%	<100					
C29 - C36 Fraction	100	<100	--	--	--	<100					
Sum of TPH C10 - C36	--	--	--	--	--	--					

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E006.2: 8-10g soil extracted with 20ml DCM/Acetone (8:2). Analysis by GC/FID.

Laboratory Identification		**85785**	**85786**	**lcs**	**mb**						
Sample Identification		QW01	QW02	QC	QC						
Depth (m)		--	--	--	--						
Sampling Date recorded on COC		30/4/07	1/5/07	--	--						
Laboratory Extraction (Preparation) Date		7/5/07	7/5/07	7/5/07	7/5/07						
Laboratory Analysis Date		8/5/07	8/5/07	7/5/07	7/5/07						
Method : E002.1											
BTEX by P&T	**EQL**										
Benzene	1	<1	<1	108%	<1						
Toluene	1	<1	<1	106%	<1						
Ethylbenzene	1	<1	<1	98%	<1						
meta- & para-Xylene	2	<2	<2	94%	<2						
ortho-Xylene	1	<1	<1	96%	<1						
Total Xylene	--	--	--	--	--						
4-BFB (Surr @ 100ug/l)	--	*87%*	*99%*	*99%*	*91%*						
Method : E003.1											
Volatile TPH by P&T (vTPH)	**EQL**										
C6-C9	50	<50	<50	97%	<50						

Results expressed in ug/l unless otherwise specified

Comments:

E003.1: Direct injection into P&T/GC/FID.
E002.1: Direct injection into P&T/GC/PID/MSD.

Final
Certificate of Analysis

Laboratory Identification		**85785**	**85786**	**lcs**	**mb**						
Sample Identification		QW01	QW02	QC	QC						
Depth (m)		--	--	--	--						
Sampling Date recorded on COC		30/4/07	1/5/07	--	--						
Laboratory Extraction (Preparation) Date		4/5/07	4/5/07	4/5/07	4/5/07						
Laboratory Analysis Date		5/5/07	5/5/07	5/5/07	5/5/07						
Method : E004.1											
Petroleum Hydrocarbons (TPH)	**EQL**										
C10-C14 Fraction	50	<50	<50	--	<50						
C15-C28 Fraction	200	<200	<200	94%	<200						
C29-C36 Fraction	50	<50	<50	--	<50						
Sum of TPH C10 - C36	--	--	--	--	--						

Results expressed in ug/l unless otherwise specified

Comments:

E004.1: Triple extraction with DCM. Analysis by GC/FID.

Laboratory Identification		**85770**	**85773**	**85776**	**85778**	**85779**	**85781**	**85783**	**85784**	**85770d**	**85770r**
Sample Identification		BH1	BH5	BH2	BH3	BH3	BH8	BH8	DUP03	QC	QC
Depth (m)		1.3-1.5	0.6-0.8	1.3-1.5	0.2-0.4	0.7-0.9	0.2-0.4	2.6-2.9	--	--	--
Sampling Date recorded on COC		30/4/07	30/4/07	1/5/07	1/5/07	1/5/07	1/5/07	1/5/07	1/5/07	--	--
Laboratory Extraction (Preparation) Date		4/5/07	4/5/07	4/5/07	4/5/07	4/5/07	4/5/07	4/5/07	4/5/07	4/5/07	--
Laboratory Analysis Date		7/5/07	7/5/07	7/5/07	7/5/07	7/5/07	7/5/07	7/5/07	7/5/07	7/5/07	--
Method : E007.2											
Polyaromatic Hydrocarbons (PAH)	**EQL**										
Naphthalene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
Acenaphthylene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
Acenaphthene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
Fluorene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
Phenanthrene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	<0.5	<0.5	<0.5	--
Anthracene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
Fluoranthene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.1	0.5	0.8	<0.5	--
Pyrene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.0	0.5	0.7	<0.5	--
Benz(a)anthracene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	<0.5	<0.5	<0.5	--
Chrysene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	--
Benzo(b)&(k)fluoranthene	1	<1	<1	<1	<1	<1	1	<1	<1	<1	--
Benzo(a) pyrene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	--
Indeno(1,2,3-c,d)pyrene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
Dibenz(a,h)anthracene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
Benzo(g,h,i)perylene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
Sum of reported PAHs	--	--	--	--	--	--	5.3	1.0	1.5	--	--
2-FBP (Surr @ 5mg/kg)	--	*99%*	*101%*	*99%*	*94%*	*97%*	*99%*	*101%*	*98%*	*106%*	*7%*
TP-d14 (Surr @ 5mg/kg)	--	*98%*	*100%*	*99%*	*97%*	*98%*	*98%*	*105%*	*105%*	*106%*	*8%*

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E007.2: 8-10g soil extracted with 20ml DCM/acetone (8:2). Analysis by GC/MS.

Laboratory Identification		**85773s**	**lcs**	**mb**							
Sample Identification		QC	QC	QC							
Depth (m)		--	--	--							
Sampling Date recorded on COC		--	--	--							
Laboratory Extraction (Preparation) Date		4/5/07	4/5/07	4/5/07							
Laboratory Analysis Date		7/5/07	5/5/07	5/5/07							
Method : E007.2											
Polyaromatic Hydrocarbons (PAH)	**EQL**										
Naphthalene	0.5	106%	97%	<0.5							
Acenaphthylene	0.5	103%	97%	<0.5							
Acenaphthene	0.5	99%	102%	<0.5							
Fluorene	0.5	107%	90%	<0.5							
Phenanthrene	0.5	108%	98%	<0.5							
Anthracene	0.5	110%	95%	<0.5							
Fluoranthene	0.5	106%	94%	<0.5							
Pyrene	0.5	109%	95%	<0.5							
Benz(a)anthracene	0.5	105%	92%	<0.5							
Chrysene	0.5	116%	107%	<0.5							
Benzo(b)&(k)fluoranthene	1	117%	111%	<1							
Benzo(a) pyrene	0.5	106%	97%	<0.5							
Indeno(1,2,3-c,d)pyrene	0.5	98%	88%	<0.5							
Dibenz(a,h)anthracene	0.5	98%	88%	<0.5							
Benzo(g,h,i)perylene	0.5	96%	91%	<0.5							
Sum of reported PAHs	--	--	--	--							
2-FBP (Surr @ 5mg/kg)	--	*101%*	*98%*	*100%*							
TP-d14 (Surr @ 5mg/kg)	--	*102%*	*97%*	*105%*							

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E007.2: 8-10g soil extracted with 20ml DCM/acetone (8:2). Analysis by GC/MS.

Laboratory Identification		**85785**	**85786**	**lcs**	**mb**						
Sample Identification		QW01	QW02	QC	QC						
Depth (m)		--	--	--	--						
Sampling Date recorded on COC		30/4/07	1/5/07	--	--						
Laboratory Extraction (Preparation) Date		4/5/07	4/5/07	4/5/07	4/5/07						
Laboratory Analysis Date		5/5/07	5/5/07	7/5/07	7/5/07						
Method : E007.1											
Polyaromatic Hydrocarbons (PAH)	**EQL**										
Naphthalene	1	<1	<1	77%	<1						
Acenaphthylene	1	<1	<1	88%	<1						
Acenaphthene	1	<1	<1	75%	<1						
Fluorene	1	<1	<1	79%	<1						
Phenanthrene	1	<1	<1	95%	<1						
Anthracene	1	<1	<1	75%	<1						
Fluoranthene	1	<1	<1	89%	<1						
Pyrene	1	<1	<1	88%	<1						
Benz(a)anthracene	1	<1	<1	87%	<1						
Chrysene	1	<1	<1	83%	<1						
Benzo(b)&(k)fluoranthene	2	<2	<2	87%	<2						
Benzo(a) pyrene	1	<1	<1	99%	<1						
Indeno(1,2,3-c,d)pyrene	1	<1	<1	97%	<1						
Dibenz(a,h)anthracene	1	<1	<1	90%	<1						
Benzo(g,h,i)perylene	1	<1	<1	92%	<1						
Sum of reported PAHs	--	--	--	--	--						
2-FBP (Surr @ 250ug/l)	--	*81%*	*91%*	*73%*	*79%*						
TP-d14 (Surr @ 250ug/l)	--	*86%*	*95%*	*74%*	*109%*						

Results expressed in ug/l unless otherwise specified

Comments:

E007.1: Triple extraction with DCM. Analysis by GC/MS.

Final
Certificate of Analysis

Laboratory Identification		**85775**	**lcs**	**mb**							
Sample Identification		BH2	QC	QC							
Depth (m)		0.4-0.5	--	--							
Sampling Date recorded on COC		1/5/07	--	--							
Laboratory Extraction (Preparation) Date		4/5/07	4/5/07	4/5/07							
Laboratory Analysis Date		7/5/07	5/5/07	5/5/07							
Method : E008.2											
Phenols by GC/MS	**EQL**										
Phenol	0.5	<0.5	92%	<0.5							
2-chlorophenol	0.5	<0.5	100%	<0.5							
2-methylphenol	0.5	<0.5	97%	<0.5							
3-&4-methylphenol	0.5	<0.5	94%	<0.5							
2-nitrophenol	0.5	<0.5	99%	<0.5							
2,4-dimethylphenol	0.5	<0.5	94%	<0.5							
2,4-dichlorophenol	0.5	<0.5	91%	<0.5							
4-chloro-3-methylphenol	0.5	<0.5	95%	<0.5							
2,4,6-trichlorophenol	0.5	<0.5	95%	<0.5							
2,4,5-trichlorophenol	0.5	<0.5	99%	<0.5							
Pentachlorophenol	1	<1	87%	<1							
Sum of reported phenols	--	--	--	--							
2-FP (Surr @ 5mg/kg)	--	*125%*	*97%*	*107%*							
Phenol-d5 (Surr @ 5mg/kg)	--	*111%*	*95%*	*101%*							
2,4,6-TBP (Surr @ 5mg/kg)	--	*109%*	*97%*	*87%*							

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E008.2: 8-10g soil extracted with 20ml DCM/acetone (8:2). Analysis by GC/MS.

Laboratory Identification		**85776**	**85778**	**85781**	**lcs**	**mb**					
Sample Identification		BH2	BH3	BH8	QC	QC					
Depth (m)		1.3-1.5	0.2-0.4	0.2-0.4	--	--					
Sampling Date recorded on COC		1/5/07	1/5/07	1/5/07	--	--					
Laboratory Extraction (Preparation) Date		4/5/07	4/5/07	4/5/07	4/5/07	4/5/07					
Laboratory Analysis Date		7/5/07	7/5/07	7/5/07	5/5/07	5/5/07					
Method : E013.2											
Organochlorine Pesticides (OC)	**EQL**										
a-BHC	0.05	<0.05	<0.05	<0.05	112%	<0.05					
Hexachlorobenzene	0.05	<0.05	7.1	0.61	116%	<0.05					
b-BHC	0.05	<0.05	<0.05	<0.05	116%	<0.05					
g-BHC (Lindane)	0.05	<0.05	<0.05	<0.05	113%	<0.05					
d-BHC	0.05	<0.05	<0.05	<0.05	128%	<0.05					
Heptachlor	0.05	<0.05	<0.05	<0.05	110%	<0.05					
Aldrin	0.05	<0.05	<0.05	<0.05	111%	<0.05					
Heptachlor epoxide	0.05	<0.05	<0.05	<0.05	112%	<0.05					
trans-chlordane	0.05	<0.05	<0.05	<0.05	111%	<0.05					
Endosulfan I	0.05	<0.05	<0.05	<0.05	112%	<0.05					
cis-chlordane	0.05	<0.05	<0.05	<0.05	112%	<0.05					
Dieldrin	0.05	<0.05	<0.05	<0.05	113%	<0.05					
4,4-DDE	0.05	<0.05	0.50	0.12	113%	<0.05					
Endrin	0.05	<0.05	<0.05	<0.05	112%	<0.05					
Endosulfan II	0.05	<0.05	<0.05	<0.05	114%	<0.05					
4,4-DDD	0.05	<0.05	0.78	0.41	113%	<0.05					
Endosulfan sulphate	0.05	<0.05	<0.05	<0.05	119%	<0.05					
4,4-DDT	0.2	<0.2	3.5	0.2	108%	<0.2					
Methoxychlor	0.2	<0.2	<0.2	<0.2	110%	<0.2					
DBC (Surr @ 0.2mg/kg)	--	*106%*	*102%*	*98%*	*105%*	*101%*					

Results expressed in mg/kg dry weight unless otherwise specified

Comments: -

E013.2: 8-10g soil extracted with 20ml hexane/acetone (1:1). Analysis by GC/dual ECD.

Laboratory Identification		**85776**	**85778**	**85781**	**lcs**	**mb**					
Sample Identification		BH2	BH3	BH8	QC	QC					
Depth (m)		1.3-1.5	0.2-0.4	0.2-0.4	--	--					
Sampling Date recorded on COC		1/5/07	1/5/07	1/5/07	--	--					
Laboratory Extraction (Preparation) Date		4/5/07	4/5/07	4/5/07	4/5/07	4/5/07					
Laboratory Analysis Date		7/5/07	7/5/07	7/5/07	7/5/07	7/5/07					
Method : E014.2											
Organophosphorus Pesticides (OP)	**EQL**										
Dichlorvos	0.5	<0.5	<0.5	<0.5	117%	<0.5					
Mevinphos (Phosdrin)	0.5	<0.5	<0.5	<0.5	80%	<0.5					
Demeton (total)	1	<1	<1	<1	104%	<1					
Ethoprop	0.5	<0.5	<0.5	<0.5	102%	<0.5					
Monocrotophos	0.5	<0.5	<0.5	<0.5	81%	<0.5					
Phorate	0.5	<0.5	<0.5	<0.5	118%	<0.5					
Dimethoate	0.5	<0.5	<0.5	<0.5	96%	<0.5					
Diazinon	0.5	<0.5	<0.5	<0.5	86%	<0.5					
Disulfoton	0.5	<0.5	<0.5	<0.5	102%	<0.5					
Methyl parathion	0.5	<0.5	<0.5	<0.5	92%	<0.5					
Ronnel	0.5	<0.5	<0.5	<0.5	99%	<0.5					
Fenitrothion	0.5	<0.5	<0.5	<0.5	96%	<0.5					
Malathion	0.5	<0.5	<0.5	<0.5	100%	<0.5					
Chlorpyrifos	0.5	<0.5	<0.5	<0.5	82%	<0.5					
Fenthion	0.5	<0.5	<0.5	<0.5	123%	<0.5					
Parathion	0.5	<0.5	<0.5	<0.5	112%	<0.5					
Stirofos	0.5	<0.5	<0.5	<0.5	103%	<0.5					
Prothiofos	0.5	<0.5	<0.5	<0.5	101%	<0.5					
Azinophos methyl	0.5	<0.5	<0.5	<0.5	100%	<0.5					
Coumaphos	0.5	<0.5	<0.5	<0.5	103%	<0.5					
TPP (Surr @ 2mg/kg)	--	*105%*	*104%*	*109%*	*98%*	*106%*					

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E014.2: 8-10g soil extracted with 20ml hexane/acetone (1:1). Analysis by GC/MSD.

Laboratory Identification		**85768**	**85772**	**85776**	**lcs**	**mb**					
Sample Identification		BH1	BH5	BH2	QC	QC					
Depth (m)		0.5-0.7	0.5-0.7	1.3-1.5	--	--					
Sampling Date recorded on COC		30/4/07	30/4/07	1/5/07	--	--					
Laboratory Extraction (Preparation) Date		4/5/07	4/5/07	4/5/07	4/5/07	4/5/07					
Laboratory Analysis Date		7/5/07	7/5/07	7/5/07	5/5/07	5/5/07					
Method : E013.2											
Polychlorinated Biphenyls (PCB)	**EQL**										
Arochlor 1016	0.5	<0.5	<0.5	<0.5	--	<0.5					
Arochlor 1232	0.5	<0.5	<0.5	<0.5	--	<0.5					
Arochlor 1242	0.5	<0.5	<0.5	<0.5	--	<0.5					
Arochlor 1248	0.5	<0.5	<0.5	<0.5	104%	<0.5					
Arochlor 1254	0.5	<0.5	<0.5	<0.5	--	<0.5					
Arochlor 1260	0.5	<0.5	<0.5	<0.5	--	<0.5					
Sum of reported PCBs	--	--	--	--	--	--					
DBC (Surr @ 0.2mg/kg)	--	*99%*	*91%*	*106%*	*102%*	*101%*					

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E013.2: 8-10g soil extracted with 20ml hexane/acetone (1:1). Analysis by GC/dual ECD.

Laboratory Identification		**85768**	**85770**	**85772**	**85773**	**85776**	**85778**	**85779**	**85781**	**85783**	**85784**
Sample Identification		BH1	BH1	BH5	BH5	BH2	BH3	BH3	BH8	BH8	DUP03
Depth (m)		0.5-0.7	1.3-1.5	0.5-0.7	0.6-0.8	1.3-1.5	0.2-0.4	0.7-0.9	0.2-0.4	2.6-2.9	--
Sampling Date recorded on COC		30/4/07	30/4/07	30/4/07	30/4/07	1/5/07	1/5/07	1/5/07	1/5/07	1/5/07	1/5/07
Laboratory Extraction (Preparation) Date		7/5/07	7/5/07	7/5/07	7/5/07	7/5/07	7/5/07	7/5/07	7/5/07	7/5/07	7/5/07
Laboratory Analysis Date		7/5/07	7/5/07	7/5/07	7/5/07	7/5/07	7/5/07	7/5/07	7/5/07	7/5/07	7/5/07
Method : E022.2											
Acid extractable metals (M7)	**EQL**										
Arsenic	1	4	4	5	2	<1	8	4	4	2	7
Cadmium	0.1	0.3	<0.1	0.3	<0.1	<0.1	0.2	0.9	0.2	<0.1	<0.1
Chromium	1	7	1	8	2	1	10	6	25	3	4
Copper	2	93	2	130	3	2	81	26	74	9	17
Nickel	1	9	<1	9	<1	<1	22	14	38	<1	1
Lead	2	30	2	120	5	10	54	12	67	14	27
Zinc	5	84	5	150	<5	12	120	460	140	49	68

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E022.2: 0.5g digested in nitric/hydrochloric acid. Analysis by ICP-MS.

Laboratory Identification		**85770d**	**85770r**	**85773s**	**crm**	**lcs**	**mb**				
Sample Identification		QC	QC	QC	QC	QC	QC				
Depth (m)		--	--	--	--	--	--				
Sampling Date recorded on COC		--	--	--	--	--	--				
Laboratory Extraction (Preparation) Date		7/5/07	--	7/5/07	7/5/07	7/5/07	7/5/07				
Laboratory Analysis Date		7/5/07	--	7/5/07	7/5/07	7/5/07	7/5/07				
Method : E022.2											
Acid extractable metals (M7)	**EQL**										
Arsenic	1	4	0%	89%	102%	89%	<1				
Cadmium	0.1	<0.1	--	101%	98%	101%	<0.1				
Chromium	1	<1	>0%	92%	103%	88%	<1				
Copper	2	2	0%	91%	96%	91%	<2				
Nickel	1	<1	--	97%	103%	93%	<1				
Lead	2	2	0%	103%	103%	102%	<2				
Zinc	5	5	0%	122%	103%	101%	<5				

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E022.2: 0.5g digested in nitric/hydrochloric acid. Analysis by ICP-MS.

Laboratory Identification		**85768**	**85770**	**85772**	**85773**	**85776**	**85778**	**85779**	**85781**	**85783**	**85784**
Sample Identification		BH1	BH1	BH5	BH5	BH2	BH3	BH3	BH8	BH8	DUP03
Depth (m)		0.5-0.7	1.3-1.5	0.5-0.7	0.6-0.8	1.3-1.5	0.2-0.4	0.7-0.9	0.2-0.4	2.6-2.9	--
Sampling Date recorded on COC		30/4/07	30/4/07	30/4/07	30/4/07	1/5/07	1/5/07	1/5/07	1/5/07	1/5/07	1/5/07
Laboratory Extraction (Preparation) Date		7/5/07	7/5/07	7/5/07	7/5/07	7/5/07	7/5/07	7/5/07	7/5/07	7/5/07	7/5/07
Laboratory Analysis Date		7/5/07	7/5/07	7/5/07	7/5/07	7/5/07	7/5/07	7/5/07	7/5/07	7/5/07	7/5/07
Method : E026.2											
Acid extractable mercury	**EQL**										
Mercury	0.05	0.06	<0.05	0.17	<0.05	<0.05	0.10	0.07	0.12	0.05	0.07

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E026.2: 0.5g digested with nitric/hydrochloric acid. Analysis by CV-ICP-MS or FIMS.

Laboratory Identification		**85770d**	**85770r**	**85773s**	**crm**	**lcs**	**mb**				
Sample Identification		QC	QC	QC	QC	QC	QC				
Depth (m)		--	--	--	--	--	--				
Sampling Date recorded on COC		--	--	--	--	--	--				
Laboratory Extraction (Preparation) Date		7/5/07	--	7/5/07	7/5/07	7/5/07	7/5/07				
Laboratory Analysis Date		7/5/07	--	7/5/07	7/5/07	7/5/07	7/5/07				
Method : E026.2											
Acid extractable mercury	**EQL**										
Mercury	0.05	<0.05	--	107%	107%	99%	<0.05				

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E026.2: 0.5g digested with nitric/hydrochloric acid. Analysis by CV-ICP-MS or FIMS.

Laboratory Identification		**85768**	**85772**	**lcs**	**mb**						
Sample Identification		BH1	BH5	QC	QC						
Depth (m)		0.5-0.7	0.5-0.7	--	--						
Sampling Date recorded on COC		30/4/07	30/4/07	--	--						
Laboratory Extraction (Preparation) Date		4/5/07	4/5/07	4/5/07	4/5/07						
Laboratory Analysis Date		7/5/07	7/5/07	7/5/07	7/5/07						
Method : E017.2											
Semivolatile Organic Compounds (SVOC)	**EQL**										
Phenols											
Phenol	0.5	<0.5	<0.5	92%	<0.5						
2-chlorophenol	0.5	<0.5	<0.5	93%	<0.5						
2-methylphenol	0.5	<0.5	<0.5	99%	<0.5						
3-&4-methylphenol	1	<1	<1	90%	<1						
2-nitrophenol	0.5	<0.5	<0.5	81%	<0.5						
2,4-dimethylphenol	0.5	<0.5	<0.5	103%	<0.5						
2,4-dichlorophenol	0.5	<0.5	<0.5	90%	<0.5						
2,6-dichlorophenol	0.5	<0.5	<0.5	92%	<0.5						
4-chloro-3-methylphenol	0.5	<0.5	<0.5	87%	<0.5						
2,4,6-trichlorophenol	0.5	<0.5	<0.5	91%	<0.5						
2,4,5-trichlorophenol	0.5	<0.5	<0.5	73%	<0.5						
2,3,4,6-tetrachlorophenol	0.5	<0.5	<0.5	84%	<0.5						
Pentachlorophenol	1	<1	<1	90%	<1						
Polynuclear Aromatic Hydrocarbons											
Naphthalene	0.5	<0.5	<0.5	90%	<0.5						
2-methylnaphthalene	0.5	<0.5	<0.5	94%	<0.5						
2-chloronaphthalene	0.5	<0.5	<0.5	90%	<0.5						
Acenaphthylene	0.5	<0.5	<0.5	91%	<0.5						
Acenaphthene	0.5	<0.5	<0.5	90%	<0.5						
Fluorene	0.5	<0.5	<0.5	93%	<0.5						
Phenanthrene	0.5	<0.5	0.6	96%	<0.5						
Anthracene	0.5	<0.5	<0.5	104%	<0.5						
Fluoranthene	0.5	<0.5	1.8	105%	<0.5						
Pyrene	0.5	<0.5	1.7	101%	<0.5						
2-(acetylamino) fluorene	0.5	<0.5	<0.5	78%	<0.5						
Benz(a)anthracene	0.5	<0.5	0.7	90%	<0.5						

Laboratory Identification		**85768**	**85772**	**lcs**	**mb**						
Sample Identification		BH1	BH5	QC	QC						
Depth (m)		0.5-0.7	0.5-0.7	--	--						
Sampling Date recorded on COC		30/4/07	30/4/07	--	--						
Laboratory Extraction (Preparation) Date		4/5/07	4/5/07	4/5/07	4/5/07						
Laboratory Analysis Date		7/5/07	7/5/07	7/5/07	7/5/07						
Method : E017.2											
Semivolatile Organic Compounds (SVOC)	**EQL**										
Chrysene	0.5	<0.5	0.9	97%	<0.5						
Benzo(b)&(k)fluoranthene	1	<1	<1	97%	<1						
7,12-dimethylbenz(a)anthracene	0.5	<0.5	<0.5	117%	<0.5						
Benzo(a) pyrene	0.5	<0.5	0.9	96%	<0.5						
3-methylcholanthrene	0.5	<0.5	<0.5	91%	<0.5						
Indeno(1,2,3-c,d)pyrene	0.5	<0.5	<0.5	85%	<0.5						
Dibenz(a,h)anthracene	0.5	<0.5	<0.5	100%	<0.5						
Benzo(g,h,i)perylene	0.5	<0.5	0.5	95%	<0.5						
Phthalates											
Dimethyl phthalate	0.5	<0.5	<0.5	94%	<0.5						
Diethylphthalate	0.5	<0.5	<0.5	84%	<0.5						
Di-n-butyl phthalate	0.5	<0.5	<0.5	87%	<0.5						
Butyl benzyl phthalate	0.5	<0.5	<0.5	100%	<0.5						
Bis(2-ethylhexyl) phthalate	5	<5	<5	88%	<5						
Di-n-octyl phthalate	0.5	<0.5	<0.5	81%	<0.5						
Nitrosamines											
N-nitrosodiethylamine	0.5	<0.5	<0.5	109%	<0.5						
N-nitrosopyrrolidine	1	<1	<1	79%	<1						
N-nitrosomorpholine	0.5	<0.5	<0.5	92%	<0.5						
N-nitrosodi-n-propylamine	0.5	<0.5	<0.5	122%	<0.5						
N-nitrosopiperidine	0.5	<0.5	<0.5	86%	<0.5						
N-nitrosodi-n-butylamine	0.5	<0.5	<0.5	104%	<0.5						
Diphenylamine	0.5	<0.5	<0.5	82%	<0.5						
4-aminobiphenyl	0.5	<0.5	<0.5	82%	<0.5						
Organochlorine Pesticides											
a-BHC	0.5	<0.5	<0.5	100%	<0.5						
b-BHC	0.5	<0.5	<0.5	117%	<0.5						

Laboratory Identification		**85768**	**85772**	**lcs**	**mb**						
Sample Identification		BH1	BH5	QC	QC						
Depth (m)		0.5-0.7	0.5-0.7	--	--						
Sampling Date recorded on COC		30/4/07	30/4/07	--	--						
Laboratory Extraction (Preparation) Date		4/5/07	4/5/07	4/5/07	4/5/07						
Laboratory Analysis Date		7/5/07	7/5/07	7/5/07	7/5/07						
Method : E017.2											
Semivolatile Organic Compounds (SVOC)	**EQL**										
d-BHC	0.5	<0.5	<0.5	106%	<0.5						
g-BHC (Lindane)	0.5	<0.5	<0.5	93%	<0.5						
Heptachlor	0.5	<0.5	<0.5	93%	<0.5						
Aldrin	0.5	<0.5	<0.5	101%	<0.5						
Heptachlor epoxide	0.5	<0.5	<0.5	93%	<0.5						
Endosulfan I	0.5	<0.5	<0.5	90%	<0.5						
trans-chlordane	0.5	<0.5	<0.5	103%	<0.5						
cis-chlordane	0.5	<0.5	<0.5	93%	<0.5						
4,4-DDE	0.5	<0.5	<0.5	87%	<0.5						
Dieldrin	0.5	<0.5	<0.5	123%	<0.5						
Endrin	0.5	<0.5	<0.5	112%	<0.5						
Endosulfan II	0.5	<0.5	<0.5	102%	<0.5						
4,4-DDD	0.5	<0.5	<0.5	106%	<0.5						
Endosulfan sulphate	0.5	<0.5	<0.5	92%	<0.5						
Endrin aldehyde	0.5	<0.5	<0.5	125%	<0.5						
Endrin ketone	0.5	<0.5	<0.5	97%	<0.5						
4,4-DDT	1	<1	<1	116%	<1						
Methoxychlor	0.5	<0.5	<0.5	101%	<0.5						
Organophosphorus Pesticides											
Dichlorvos	0.5	<0.5	<0.5	100%	<0.5						
Mevinphos (Phosdrin)	0.5	<0.5	<0.5	99%	<0.5						
Demeton-O	0.5	<0.5	<0.5	97%	<0.5						
Ethoprop	0.5	<0.5	<0.5	92%	<0.5						
Phorate	0.5	<0.5	<0.5	86%	<0.5						
Demeton-S	0.5	<0.5	<0.5	96%	<0.5						
Dimethoate	0.5	<0.5	<0.5	70%	<0.5						
Diazinon	0.5	<0.5	<0.5	96%	<0.5						

Laboratory Identification		**85768**	**85772**	**lcs**	**mb**						
Sample Identification		BH1	BH5	QC	QC						
Depth (m)		0.5-0.7	0.5-0.7	--	--						
Sampling Date recorded on COC		30/4/07	30/4/07	--	--						
Laboratory Extraction (Preparation) Date		4/5/07	4/5/07	4/5/07	4/5/07						
Laboratory Analysis Date		7/5/07	7/5/07	7/5/07	7/5/07						
Method : E017.2											
Semivolatile Organic Compounds (SVOC)	**EQL**										
Sulfotepp	0.5	<0.5	<0.5	87%	<0.5						
Disulfoton	0.5	<0.5	<0.5	98%	<0.5						
Methyl parathion	0.5	<0.5	<0.5	102%	<0.5						
Ronnel	0.5	<0.5	<0.5	96%	<0.5						
Malathion	0.5	<0.5	<0.5	81%	<0.5						
Fenitrothion	0.5	<0.5	<0.5	84%	<0.5						
Fenthion	0.5	<0.5	<0.5	93%	<0.5						
Chlorpyrifos	0.5	<0.5	<0.5	82%	<0.5						
Parathion	0.5	<0.5	<0.5	92%	<0.5						
Trichloronate	0.5	<0.5	<0.5	93%	<0.5						
EPN	0.5	<0.5	<0.5	86%	<0.5						
Stirophos	0.5	<0.5	<0.5	102%	<0.5						
Prothiofos	0.5	<0.5	<0.5	87%	<0.5						
Profenofos	0.5	<0.5	<0.5	104%	<0.5						
Fensulfothion	0.5	<0.5	<0.5	91%	<0.5						
Azinophos methyl	0.5	<0.5	<0.5	85%	<0.5						
Coumaphos	0.5	<0.5	<0.5	91%	<0.5						
Nitroaromatics and Ketones											
Acetophenone	0.5	<0.5	<0.5	93%	<0.5						
Isophorone	0.5	<0.5	<0.5	85%	<0.5						
Nitrobenzene	0.5	<0.5	<0.5	86%	<0.5						
1,4-dinitrobenzene	0.5	<0.5	<0.5	92%	<0.5						
2,6-dinitrotoluene	1	<1	<1	110%	<1						
2,4-dinitrotoluene	1	<1	<1	88%	<1						
5-nitro-o-toluidine	0.5	<0.5	<0.5	85%	<0.5						
Azobenzene	0.5	<0.5	<0.5	98%	<0.5						
4-(dimethylamino) azobenzene	0.5	<0.5	<0.5	92%	<0.5						

Laboratory Identification		**85768**	**85772**	**lcs**	**mb**						
Sample Identification		BH1	BH5	QC	QC						
Depth (m)		0.5-0.7	0.5-0.7	--	--						
Sampling Date recorded on COC		30/4/07	30/4/07	--	--						
Laboratory Extraction (Preparation) Date		4/5/07	4/5/07	4/5/07	4/5/07						
Laboratory Analysis Date		7/5/07	7/5/07	7/5/07	7/5/07						
Method : E017.2											
Semivolatile Organic Compounds (SVOC)	**EQL**										
Phenacetin	0.5	<0.5	<0.5	89%	<0.5						
Pentachloronitrobenzene	0.5	<0.5	<0.5	82%	<0.5						
Anilines and Benzedines											
Aniline	0.5	<0.5	<0.5	59%	<0.5						
4-chloroaniline	0.5	<0.5	<0.5	46%	<0.5						
2-nitroaniline	1	<1	<1	99%	<1						
3-nitroaniline	1	<1	<1	99%	<1						
4-nitroaniline	0.5	<0.5	<0.5	69%	<0.5						
Dibenzofuran	0.5	<0.5	<0.5	94%	<0.5						
Carbazole	0.5	<0.5	<0.5	97%	<0.5						
o-toluidine	0.5	<0.5	<0.5	33%	<0.5						
1-naphthylamine	0.5	<0.5	<0.5	71%	<0.5						
2-naphthylamine	0.5	<0.5	<0.5	45%	<0.5						
Chlorinated Hydrocarbons											
1,3-dichlorobenzene	0.5	<0.5	<0.5	86%	<0.5						
1,4-dichlorobenzene	0.5	<0.5	<0.5	91%	<0.5						
1,2-dichlorobenzene	0.5	<0.5	<0.5	95%	<0.5						
1,2,4-trichlorobenzene	0.5	<0.5	<0.5	100%	<0.5						
1,2,4,5-tetrachlorobenzene	0.5	<0.5	<0.5	97%	<0.5						
Pentachlorobenzene	0.5	<0.5	<0.5	88%	<0.5						
Hexachlorobenzene	0.5	<0.5	<0.5	97%	<0.5						
Pentachloroethane	0.5	<0.5	<0.5	86%	<0.5						
Hexachloroethane	0.5	<0.5	<0.5	85%	<0.5						
Hexachloropropene	0.5	<0.5	<0.5	104%	<0.5						
Hexachlorobutadiene	0.5	<0.5	<0.5	87%	<0.5						
Hexachlorocyclopentadiene	2	<2	<2	104%	<2						
Haloethers											

Final
Certificate of Analysis

Laboratory Identification		**85768**	**85772**	**lcs**	**mb**						
Sample Identification		BH1	BH5	QC	QC						
Depth (m)		0.5-0.7	0.5-0.7	--	--						
Sampling Date recorded on COC		30/4/07	30/4/07	--	--						
Laboratory Extraction (Preparation) Date		4/5/07	4/5/07	4/5/07	4/5/07						
Laboratory Analysis Date		7/5/07	7/5/07	7/5/07	7/5/07						
Method : E017.2											
Semivolatile Organic Compounds (SVOC)	**EQL**										
Bis(2-chloroethyl)ether	0.5	<0.5	<0.5	37%	<0.5						
Bis(2-chloroisopropyl) ether	0.5	<0.5	<0.5	96%	<0.5						
Bis(2-chloroethoxy) methane	0.5	<0.5	<0.5	93%	<0.5						
4-chlorophenyl phenyl ether	0.5	<0.5	<0.5	89%	<0.5						
4-bromophenyl phenyl ether	0.5	<0.5	<0.5	98%	<0.5						
Miscellaneous Compounds											
Methyl methanesulfonate	0.5	<0.5	<0.5	85%	<0.5						
Ethyl methanesulfonate	0.5	<0.5	<0.5	102%	<0.5						
Benzyl alcohol	0.5	<0.5	<0.5	97%	<0.5						
Safrole	0.5	<0.5	<0.5	79%	<0.5						
Isosafrole	0.5	<0.5	<0.5	98%	<0.5						
Surrogate Standards											
2-FP (Surr @ 5mg/kg)	--	*85%*	*101%*	*91%*	*97%*						
Phenol-d5 (Surr @ 5mg/kg)	--	*91%*	*97%*	*95%*	*100%*						
NB-d5 (Surr @ 5mg/kg)	--	*87%*	*86%*	*85%*	*86%*						
2-FBP (Surr @ 5mg/kg)	--	*96%*	*106%*	*102%*	*101%*						
TP-d14 (Surr @ 5mg/kg)	--	*94%*	*95%*	*92%*	*92%*						

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E017.2: 8-10g soil extracted with 20ml DCM/Acetone (8:2). Analysis by GC/MS.

Laboratory Identification		**85768**	**85770**	**85772**	**85773**	**85775**	**85776**	**85778**	**85779**	**85781**	**85783**
Sample Identification		BH1	BH1	BH5	BH5	BH2	BH2	BH3	BH3	BH8	BH8
Depth (m)		0.5-0.7	1.3-1.5	0.5-0.7	0.6-0.8	0.4-0.5	1.3-1.5	0.2-0.4	0.7-0.9	0.2-0.4	2.6-2.9
Sampling Date recorded on COC		30/4/07	30/4/07	30/4/07	30/4/07	1/5/07	1/5/07	1/5/07	1/5/07	1/5/07	1/5/07
Laboratory Extraction (Preparation) Date		4/5/07	4/5/07	4/5/07	4/5/07	4/5/07	4/5/07	4/5/07	4/5/07	4/5/07	4/5/07
Laboratory Analysis Date		7/5/07	7/5/07	7/5/07	7/5/07	7/5/07	7/5/07	7/5/07	7/5/07	7/5/07	7/5/07
Method : E005.2											
Moisture	**EQL**										
Moisture	--	14	5	10	12	13	19	18	17	5	16

Results expressed in % w/w unless otherwise specified

Comments:

E005.2: Moisture by gravimetric analysis. Results are in % w/w.

Laboratory Identification		**85784**	**85770d**	**85770r**							
Sample Identification		DUP03	QC	QC							
Depth (m)		--	--	--							
Sampling Date recorded on COC		1/5/07	--	--							
Laboratory Extraction (Preparation) Date		4/5/07	4/5/07	--							
Laboratory Analysis Date		7/5/07	7/5/07	--							
Method : E005.2											
Moisture	**EQL**										
Moisture	--	18	5	0%							

Results expressed in % w/w unless otherwise specified

Comments:

E005.2: Moisture by gravimetric analysis. Results are in % w/w.

AUSTRALIAN SAFER ENVIRONMENT & TECHNOLOGY PTY LTD

ABN 36 088 095 112

Our ref : ASET 11907/ 15087 / 1 - 2
Your ref: E031684
NATA Accreditation No: 14484

4 May 2007

LABMARK
P O Box 641
Hornsby NSW 1630

Attn: Ms Kalya Pilbeam

Dear Kalya,

Asbestos Identification
This report presents the results of two samples, forwarded by LABMARK on 3 May 2007, for analysis for asbestos.

1.Introduction: Two samples forwarded were examined and analysed for the presence of asbestos.

2. Methods : The samples were examined under a Stereo Microscope and selected fibres were analysed by Polarized Light Microscopy in conjunction with Dispersion Staining method **(Safer Environment Method 1.)**

3. Results : **Sample No. 1. ASET 11907 / 15087 / 1. E031684 - 85700 - TP357 - 0.0 - 15.**
Approx dimensions 5.0 cm x 2.0 cm x 2.0 cm
The sample consisted of a mixture of clayish soil, stones, plant matter and fragments of plaster.
No asbestos detected.

Sample No. 2. ASET 11907 / 15087 / 2. E031684 - 85701 - TP501b - 0.0 - 15.
Approx dimensions 5.0 cm x 2.0 cm x 1.5 cm
The sample consisted of a mixture of clayish soil, stones and plant matter.
No asbestos detected.

Analysed and reported by,

Karu Jayasundara. BSc (Hons) MAus IMM.
Mineralogist / Chartered Professional of Geology
Approved Signatory.

WORLD RECOGNISED ACCREDITATION

Quality, Service, Support

Report Date : 9/05/2007
Report Time : 3:59:19PM

Sample **Receipt** Notice (SRN) for **E031684**

Client Details		Laboratory Reference Information	
Client Name:	HLA - Envirosciences Pty Limited	**Please have this information ready when contacting Labmark.**	
Client Phone:	02 8484 8999		
Client Fax:	02 8484 8989	**Laboratory Report:**	**E031684**
Contact Name:	Kumar Srinivasan	**Quotation Number:**	Q0271.ES
Contact Email:	ksrinivasan@hla-enviro.com.au	**Laboratory Address:**	Unit 1, 8 Leighton Pl. Asquith NSW 2077
Client Address:	PO Box 726 Pymble NSW 2073	**Phone:**	61 2 9476 6533
		Fax:	61 2 9476 8219
Project Name:	Green Square	**Sample Receipt Contact:**	Jakleen El Galada
Project Number:	S4075802	**Email:**	jakleen.galada@labmark.com.au
CoC Number:	- Not provided -	**Reporting Contact:**	Jyothi Lal
Purchase Order:	143799	**Email:**	jyothi.lal@labmark.com.au
Surcharge:	No surcharge applied (results by 6:30pm on due date)		
Sample Matrix:	SOIL & WATER		
Date Sampled (earliest date):	30/04/2007	**NATA Accreditation:**	13542
Date Samples Received:	02/05/2007	**TGA GMP License:**	185-336 (Sydney)
Date Sample Receipt Notice issued:	09/05/2007	**APVMA License:**	6105 (Sydney)
Date Preliminary Report Due:	09/05/2007	**AQIS Approval:**	NO356 (Sydney)
		AQIS Entry Permit:	200521534 (Sydney)

Reporting Requirements: Electronic Data Download required: No

Sample Condition: COC received with samples. Report number and lab ID's defined on COC.
Samples received in good order .
Samples received with cooling media: Crushed ice .
Samples received chilled.
Security seals intact .
Sample container & chemical preservation suitable .

Comments:

Holding Times: Date received allows for sufficient time to meet Technical Holding Times.

Preservation: Chemical preservation of samples satisfactory for requested analytes.

Important Notes:

LabMark shall responsibly dispose of spent customer soil and water samples which includes the disintegration of the sample label. A sample disposal fee of $1.00 is applicable on all samples received by the laboratory regardless of whether they have undergone analytical testing. Sample disposal of environmental samples shall be 31 days (water) and 3 months (soil, HN03 preserved samples) after laboratory receipt, unless otherwise requested in writing by the client. Samples requested to be held in non-refrigerated storage shall incur $5.00/ sample/ 3 months. Additional refrigerated storage shall incur $30/ sample/ 3 months. Combination prices apply only if requested. Transfer of report ownership from LabMark to the client shall occur once full and final payment has been settled and verified. All report copies may be retracted where full payment does not occur within the agreed settlement period.

Analysis comments:

Subcontracted Analyses:

Reported by Aust. Safer Env & Tech., NATA accreditation No. 14484

Thank you for choosing Labmark to analyse your project samples.

Additional information on www.labmark.com.au

Report Date : 9/05/2007
Report Time : 3:59:19PM

Quality, Service, Support

Sample **Receipt** Notice (SRN) for **E031684**

The table below represents LabMark's understanding and interpretation of the customer supplied sample COC request. Please confirm that your COC request has been entered correctly. Due to THT and TAT requirements, testing shall commence immediately as per this table, unless the customer intervenes with a correction prior to testing.

GRID REVIEW TABLE

No.	Date	Depth	Client Sample ID	Requested Analysis: BTEX by P&T	BTEX by P&T	Acid extractable mercury	HOLD ON HOLD	Acid extractable metals (M7)	Moisture	Organochlorine Pesticides (OC)	Organophosphorus Pesticides (OP)	Polyaromatic Hydrocarbons (PAH)	Polyaromatic Hydrocarbons (PAH)	Polychlorinated Biphenyls (PCB)	Phenols by GC/MS	PREP Not Reported	PREP Not Reported	Semivolatile Organic Compounds (SVOC)	Petroleum Hydrocarbons (TPH)	Petroleum Hydrocarbons (TPH)	Volatile TPH by P&T (vTPH)	Volatile TPH by P&T (vTPH)	External Not reported- Asbestos
85768	30/04	0.5-0.7	BH1	●		●		●	●					●		●		●	●		●		
85769	30/04	0.8-1.0	BH1				●																
85770	30/04	1.3-1.5	BH1	●		●		●	●			●				●			●		●		
85771	30/04	2.5-2.7	BH1				●																
85772	30/04	0.5-0.7	BH5	●		●		●	●					●		●		●	●		●		
85773	30/04	0.6-0.8	BH5	●		●		●	●			●				●			●		●		
85774	30/04	0.4	BH1													●							●
85775	01/05	0.4-0.5	BH2						●						●	●							
85776	01/05	1.3-1.5	BH2	●		●		●	●	●	●	●		●		●			●		●		
85777	01/05	5.0-5.1	BH2				●																
85778	01/05	0.2-0.4	BH3	●		●		●	●	●	●	●				●			●		●		
85779	01/05	0.7-0.9	BH3	●		●		●	●			●				●			●		●		
85780	01/05	3.5-3.7	BH3				●																
85781	01/05	0.2-0.4	BH8	●		●		●	●	●	●	●				●			●		●		
85782	01/05	1.0-1.2	BH8				●																
85783	01/05	2.6-2.9	BH8	●		●		●	●			●				●			●		●		
85784	01/05		DUP03	●		●		●	●			●				●			●		●		
85785	30/04		QW01		●								●				●			●		●	
85786	01/05		QW02		●								●				●			●		●	
			Totals:	10	2	10	5	10	11	3	3	8	2	3	1	12	2	2	10	2	10	2	1

Thank you for choosing Labmark to analyse your project samples.
Additional information on www.labmark.com.au

LabMark

Quality, Service, Support

Report Date : 9/05/2007
Report Time : 3:59:19PM

Sample **Receipt** Notice (SRN) for **E031684**

No.	Date	Depth	Client Sample ID	Requested Analysis: M8 - M7-T_S																			
85768	30/04	0.5-0.7	BH1	●																			
85770	30/04	1.3-1.5	BH1	●																			
85772	30/04	0.5-0.7	BH5	●																			
85773	30/04	0.6-0.8	BH5	●																			
85776	01/05	1.3-1.5	BH2	●																			
85778	01/05	0.2-0.4	BH3	●																			
85779	01/05	0.7-0.9	BH3	●																			
85781	01/05	0.2-0.4	BH8	●																			
85783	01/05	2.6-2.9	BH8	●																			
85784	01/05		DUP03	●																			
			Totals:	10																			

Thank you for choosing Labmark to analyse your project samples.
Additional information on www.labmark.com.au

HLA Page 1 of 2

CHAIN OF CUSTODY

HLA - Enviroscience Pty Limited - Sydney
Level 5, 828 Pacific Hwy
PO Box 726 Pymble NSW 2073
Gordon NSW 2072 Australia
Tel: 61 2 8484 8999
Fax: 61 2 8484 8989
E-mail: mail@syd.hla-enviro.com.au

Laboratory Details
Lab Name: Labmark
Lab Address Asquith
Contact Name:
Lab. Ref:
Tel:
Fax
Preliminary Report by:
Final Report by:
Lab Quote No: Q0241.ES

Sampled By: KATE OBRIEN
HLA Project No: S4075802
Project Name: GREEN SQUARE - SITE 2 PO No. 143499

Specifications: Project Manager: Kumar Srinivasan ESDAT Format

	Yes (tick)
1. Urgent TAT required? (please circle: 24hr 48hr _____days)	
2. Fast TAT Guarantee Required?	
3. Is any sediment layer present in waters to be excluded from extractions?	
4. % extraneous material removed from samples to be reported as per NEPM 5.1.1?	
5. Special storage requirements? (details: _____)	
6. Shell Quality Partnership:	
7. Report Format: ☐ Fax ☐ Hardcopy ☑ Email : To Kumar	

Analysis Request

Lab. ID	Sample ID	Sampling Date	Matrix: soil	water	other	Preservation: filt'ed	acid	ice	other	Container (No. & type)	BTEX + TPH	Metals*	PAH's	OCP	OPP	PCB	SVOC	VOC	TPH	Lead	TCLP Heavy Metals	TCLP PAH's	Phenols	VHC	Speciated TPH	Other: HOLD	Asbestos		Please send to	ALS for Analysis
85768	BH1_0.5-0.7	30.4.07	X					X		glass jar x1	X	X	X	X	X	X	X												
85769	BH1_0.8-1.0	"	X					X		"																X				
85770	BH1_1.3-1.5	"	X					X		"	X	X	X																	
85771	BH1_2.5-2.7	"	X					X		"																X				
85772	BH5_0.5-0.67	"	X					X		"	X	X	X	X	X	X	X													
85773	BH5_0.6-0.8	"	X					X		"	X	X	X																	
85774	BH1_0.4	"	X					X		plastic bag																	X			
85775	BH2_0.4-0.5	1/5/07	X					X		glass jar x1													X							
85776	BH2_1.3-1.5	"	X					X		"	X	X	X	X	X	X														
85777	BH2_5.0-5.1	"	X					X		"																X				
85778	BH3_0.2-0.4	"	X					X		"	X	X	X	X	X															
85779	BH3_0.7-0.9	"	X					X		"	X	X	X																	
ALS	DUP02	1/5/07	X					X		glass jar x1																			X	X

* Metals Required (Delete elements not required): As Cd Cr Cu Ni Pb Zn Hg

Comments: DUP02 to ALS (ALS PO No. 143500)

Lab Report No. E031684

Esky ID

Relinquished by: Kate O'Brien Signed: Date: 2/5/07

Recieved by: Signed: Date:

Relinquished by: Signed: SA Date: 1.45pm

Recieved by: Signed: Date:

HLA

Page 2 of 2

CHAIN OF CUSTODY

HLA - Envirosciences Pty Limited - Sydney

Level 5, 828 Pacific Hwy
PO Box 726 Pymble NSW 2073
Gordon NSW 2072 Australia

Tel: 61 2 8484 8999
Fax: 61 2 8484 8989
E-mail: mail@syd.hla-enviro.com.au

Laboratory Details

Lab Name:
Lab Address
Contact Name:
Lab. Ref:

Tel:
Fax
Preliminary Report by:
Final Report by:
Lab Quote No:

Sampled By:

HLA Project No: 84075802

Project Name:

PO No.

Specifications:

	Yes (tick)
1. Urgent TAT required? (please circle: 24hr 48hr _____days)	
2. Fast TAT Guarantee Required?	
3. Is any sediment layer present in waters to be excluded from extractions?	
4. % extraneous material removed from samples to be reported as per NEPM 5.1.1?	
5. Special storage requirements? (details: _____)	
6. Shell Quality Partnership:	
7. Report Format: ☐ Fax ☐ Hardcopy ☐ Email :	

Analysis Request

Lab. ID	Sample ID	Sampling Date	Matrix: soil	Matrix: water	Matrix: other	Preservation: filt'ed	Preservation: acid	Preservation: ice	Preservation: other	Container (No. & type)	BTEX + TPH	Metals*	PAH's	OCP	OPP	PCB	SVOC	VOC	TPH	Lead	TCLP Heavy Metals	TCLP PAH's	Phenols	VHC	Speciated TPH	Other: HOLD
85780	BH3_3.5-3.7	1.5.07	X					X		Soil jar																X
85781	BH8_0.2-0.4	"	X					X		"	X	X	X	X	X											
85782	BH8_1.0-1.2	"	X					X		"																X
85783	BH8_2.6-2.9	"	X					X		"	X	X	X													
85784	DUP03	"	X					X		"	X	X	X													X
85785	QW01	30.4.07		X			X	X		1x metals 1x Amber	X		X	⇦	don't need metals											
85786	QW02	1.5.07		X			X	X		"	X		X	⇦												
	~~BH8 2.2-2.4~~	"	X																							7/4

* Metals Required (Delete elements not required): As Cd Cr Cu Ni Pb Zn Hg

Comments:

Lab Report No: E031884

Esky ID

Relinquished by:	Signed:	Date:	
Recieved by:	Signed:	Date:	
Relinquished by: Stephen	Signed: SA	Date: 1.45pm	
Recieved by:	Signed:	Date:	

Quality, Service, Support

Report Date : 7/05/2007
Report Time : 11:10:48AM

Sample **Receipt** Notice (SRN) for **E031736**

Client Details		Laboratory Reference Information	
Client Name:	HLA - Envirosciences Pty Limited	**Please have this information ready when contacting Labmark.**	
Client Phone:	02 8484 8999		
Client Fax:	02 8484 8989	**Laboratory Report:**	**E031736**
Contact Name:	Kumar Srinivasan	**Quotation Number:**	Q0271.ES
Contact Email:	ksrinivasan@hla-enviro.com.au	**Laboratory Address:**	Unit 1, 8 Leighton Pl. Asquith NSW 2077
Client Address:	PO Box 726 Pymble NSW 2073	**Phone:**	61 2 9476 6533
		Fax:	61 2 9476 8219
Project Name:	Green Square-Police	**Sample Receipt Contact:**	Jakleen El Galada
Project Number:	S4075802	**Email:**	jakleen.galada@labmark.com.au
CoC Number:	- Not provided -	**Reporting Contact:**	Jyothi Lal
Purchase Order:	14399	**Email:**	jyothi.lal@labmark.com.au
Surcharge:	No surcharge applied (results by 6:30pm on due date)		
Sample Matrix:	SOIL		
Date Sampled (earliest date):	02/05/2007	**NATA Accreditation:**	13542
Date Samples Received:	04/05/2007	**TGA GMP License:**	185-336 (Sydney)
Date Sample Receipt Notice issued:	07/05/2007	**APVMA License:**	6105 (Sydney)
Date Preliminary Report Due:	11/05/2007	**AQIS Approval:**	NO356 (Sydney)
		AQIS Entry Permit:	200521534 (Sydney)

Reporting Requirements: Electronic Data Download required: No

Sample Condition: COC received with samples. Report number and lab ID's defined on COC.
Samples received in good order .
Samples received with cooling media: Crushed ice .
Samples received chilled.
Security seals not required. Direct Labmark's custody taken .
Sample container & chemical preservation suitable .

Comments: Asbestos subcontracted to ASET. Sample 86267 missing.

Holding Times: Date received allows for sufficient time to meet Technical Holding Times.

Preservation: Chemical preservation of samples satisfactory for requested analytes.

Important Notes:

LabMark shall responsibly dispose of spent customer soil and water samples which includes the disintegration of the sample label. A sample disposal fee of $1.00 is applicable on all samples received by the laboratory regardless of whether they have undergone analytical testing. Sample disposal of environmental samples shall be 31 days (water) and 3 months (soil, HN03 preserved samples) after laboratory receipt, unless otherwise requested in writing by the client. Samples requested to be held in non-refrigerated storage shall incur $5.00/ sample/ 3 months. Additional refrigerated storage shall incur $30/ sample/ 3 months. Combination prices apply only if requested. Transfer of report ownership from LabMark to the client shall occur once full and final payment has been settled and verified. All report copies may be retracted where full payment does not occur within the agreed settlement period.

Analysis comments:

Subcontracted Analyses:

Reported by Aust. Safer Env & Tech., NATA accreditation No. 14484

Thank you for choosing Labmark to analyse your project samples.

Additional information on www.labmark.com.au

Quality, Service, Support

Report Date : 7/05/2007
Report Time : 11:10:48AM

Sample **Receipt** Notice (SRN) for **E031736**

The table below represents LabMark's understanding and interpretation of the customer supplied sample COC request. Please confirm that your COC request has been entered correctly. Due to THT and TAT requirements, testing shall commence immediately as per this table, unless the customer intervenes with a correction prior to testing.

GRID REVIEW TABLE

No.	Date	Depth	Client Sample ID	Requested Analysis: BTEX by P&T	Acid extractable mercury	HOLD ON HOLD	Acid extractable metals (M7)	MISSING	Moisture	Organochlorine Pesticides (OC)	Organophosphorus Pesticides (OP)	Polyaromatic Hydrocarbons (PAH)	Polychlorinated Biphenyls (PCB)	Phenols by GC/MS	PREP Not Reported	Petroleum Hydrocarbons (TPH)	Volatile TPH by P&T (vTPH)	External Not reported- Asbestos					
86265	05/05	0.4-0.6	BH10	●	●		●		●	●	●	●	●		●	●	●						
86266	05/05	2.4-2.9	BH10			●																	
86267	05/05	2.9-3.0	BH10					●															
86268	05/05	3.2-3.4	BH10			●																	
86269	05/05	5.8-6.0	BH10						●					●	●								
86270	05/05	9.0-9.2	BH10	●	●		●		●			●			●	●	●						
86271	02/05	2.9-3.0	BH8			●																	
86272	02/05	0.7	BH10												●			●					
			Totals:	2	2	3	2	1	3	1	1	2	1	1	4	2	2	1					

Thank you for choosing Labmark to analyse your project samples.
Additional information on www.labmark.com.au

LabMark

Quality, Service, Support

Report Date : 7/05/2007
Report Time : 11:10:48AM

Sample **Receipt** Notice (SRN) for **E031736**

No.	Date	Depth	Client Sample ID	Requested Analysis: M8 - M7-T_S																			
86265	05/05	0.4-0.6	BH10	●																			
86270	05/05	9.0-9.2	BH10	●																			
			Totals:	2																			

Thank you for choosing Labmark to analyse your project samples.
Additional information on www.labmark.com.au

HLA Page 1/1

CHAIN OF CUSTODY

HLA - Envirosciences Pty Limited - Sydney
Level 5, 828 Pacific Hwy
PO Box 726 Pymble NSW 2073
Gordon NSW 2072 Australia
Tel: 61 2 8484 8999
Fax: 61 2 8484 8989
E-mail: mail@syd.hla-enviro.com.au

Laboratory Details
Lab Name: Labmark
Lab Address Asquith
Contact Name:
Lab. Ref:
Tel:
Fax
Preliminary Report by:
Final Report by:
Lab Quote No: Q0241.FS

Sampled By: Kate O'Brien
HLA Project No: 34075802
Project Name: Green Square - Police
PO No. 143499

Specifications: Esdat Project Manager: Kumer Srinivasan

	Yes (tick)
1. Urgent TAT required? (please circle: 24hr 48hr _____days)	
2. Fast TAT Guarantee Required?	
3. Is any sediment layer present in waters to be excluded from extractions?	
4. % extraneous material removed from samples to be reported as per NEPM 5.1.1?	
5. Special storage requirements? (details: _____)	
6. Shell Quality Partnership:	
7. Report Format: ☐ Fax ☐ Hardcopy ☑ Email :	

Lab. ID	Sample ID	Sampling Date	Matrix: soil	water	other	Preservation: filt'ed	acid	ice	other	Container (No. & type)	Analysis Request: BTEX + TPH	Metals*	PAH's	OCP	OPP	PCB	SVOC	VOC	TPH	Lead	TCLP Heavy Metals	TCLP PAH's	Phenols	VHC	Speciated TPH	Other: Asbestos			HOLD
86265	BH10_0.4-0.6	3.5.07	X					X		Soil jar	✓	X	X	X	X	X													
86266	BH10_2.4-2.9	"	X					X		"																			X
86267	BH10_2.9-3.0	"	X					X		"								Remediation Report											X
86268	BH10_3.2-3.4	"	X					X		"																			X
86269	BH10_5.8-6.0	"	X					X		"													X						
86270	BH10_9.0-9.2	"	X					X		"	X	X	X																
86271	BH8_2.9-3.0	2.5.07	X					X		"																			X
86272	BH10_0.7	2.5.07	X					X		plastic bag																X			

* Metals Required (Delete elements not required): As Cd Cr Cu Ni Pb Zn Hg

Comments:

Lab Report No. E031736

Esky ID

Relinquished by: Kate O'Brien Signed: Date: 4-5-07

Recieved by: Signed: Date:

Relinquished by: Signed: Date:

Recieved by: MD Signed: MH Date: 4/5

Field_Worksheet_FORM025_Dec04

CUSTOMER CENTRIC - ANALYTICAL CHEMISTS

No. 13542.

Accredited for compliance with ISO/IEC 17025. The results of tests, calibrations and/or measurements included in this document are traceable to Australian/national standards. NATA is a signatory to the APLAC mutual recognition arrangement for the mutual recognition of the equivalence of testing, calibration and inspection reports.

AUSTRALIAN QUARANTINE AND INSPECTION SERVICE

SYDNEY License No. N0356.

Quarantine Approved premises criteria 5.1 for quarantine containment level 1 (QCI) facilities. Class five criteria cover premises utilised for research, analysis,and/or testing of biological material, soil, animal, plant and human products.

FINAL CERTIFICATE OF ANALYSIS - ENVIRONMENTAL DIVISION

Laboratory Report No:	E031736
Client Name:	HLA - Envirosciences Pty Limited
Client Reference:	Green Square-Police
Contact Name:	Kumar Srinivasan
Chain of Custody No:	na
Sample Matrix:	SOIL

Cover Page 1 of 4
plus Sample Results

Date Received: 04/05/2007
Date Reported: 11/05/2007

This Final Certificate of Analysis consists of sample results, DQI's, method descriptions, laboratory definitions, and internationally recognised NATA accreditation and endorsement. The DQO compliance relates specifically to QA/QC results as performed as part of the sample analysis, and may provide an indication of sample result quality. Transfer of report ownership from Labmark to the client shall only occur once full & final payment has been settled and verified. All report copies may be retracted where full payment has not occured within the agreed settlement period.

QUALITY ASSURANCE CRITERIA

Accuracy:	matrix spike:	1 in first 5-20, then 1 every 20 samples
	lcs, crm, method:	1 per analytical batch
	surrogate spike:	addition per target organic method
Precision:	laboratory duplicate:	1 in first 5-10, then 1 every 10 samples
	laboratory triplicate:	re-extracted & reported when duplicate RPD values exceed acceptance criteria
Holding Times:	soils, waters:	Refer to LabMark Preservation & THT table VOC's 14 days water / soil VAC's 7 days water or 14 days acidified VAC's 14 days soil SVOC's 7 days water, 14 days soil Pesticides 7 days water, 14 days soil Metals 6 months general elements Mercury 28 days
Confirmation:	target organic analysis:	GC/MS, or confirmatory column
Sensitivity:	EQL:	Typically 2-5 x Method Detection Limit (MDL)

QUALITY CONTROL GLOBAL ACCEPTANCE CRITERIA (GAC)

Accuracy:	spike, lcs, crm surrogate:	general analytes 70% - 130% recovery phenol analytes 50% - 130% recovery organophosphorous pesticide analytes 60% - 130% recovery phenoxy acid herbicides 50% - 130% recovery
	anion/cation bal:	+/- 10% (0-3 meq/l), +/- 5% (>3 meq/l)
Precision:	method blank:	not detected >95% of the reported EQL
	duplicate lab RPD (metals):	0-30% (>10xEQL), 0-75% (5-10xEQL) 0-100% (<5xEQL)
	duplicate lab RPD:	0-50% (>10xEQL), 0-75% (5-10xEQL) 0-100% (<5xEQL)

QUALITY CONTROL ANALYTE SPECIFIC ACCEPTANCE CRITERIA (ASAC)

Accuracy:	spike, lcs, crm surrogate:	analyte specific recovery data <3xsd of historical mean
Uncertainty:	spike, lcs:	measurement calculated from historical analyte specific control charts

RESULT ANNOTATION

DQO:	Data Quality Objective	s:	matrix spike recovery	p:	pending
DQI:	Data Quality Indicator	d:	laboratory duplicate	lcs:	laboratory control sample
EQL:	Estimated Quantitation Limit	t:	laboratory triplicate	crm:	certified reference material
- - :	not applicable	r:	RPD relative % difference	mb:	method blank

David Burns
Quality Control (Report signatory)
david.burns@labmark.com.au

Geoff Weir
Authorising Chemist (NATA signatory)
geoff.weir@labmark.com.au

Simon Mills
Authorising Chemist (NATA signatory)
simon.mills@labmark.com.au

This document is issued in accordance with NATA's accreditation requirements.

NEPC GUIDELINE COMPLIANCE - DQO

1. GENERAL

A. Results relate specifically to samples as received. Sample results are not corrected for matrix spike, lcs, or surrogate recovery data.

B. EQL's are matrix dependant and may be increased due to sample dilution or matrix interference.

C. Laboratory QA/QC samples are specific to this project.

D. Inter-laboratory proficiency results are available upon request. NATA accreditation details available at www.nata.asn.au.

E. VOC spikes & surrogates added to samples during extraction, SVOC spikes & surrogates added prior to extraction.

F. Recovery data outside GAC limits shall be investigated and compared to ASAC (historical mean +/- 3sd). If recovery data <20%, then the relevant results for that compound are considered not reliable.

G. Recovery data (ms, surrogate, crm, lcs) outside ASAC limits shall initiate an investigative action. Anomolous QC data is examined in conjunction with other QC samples and a final decision whether to accept or reject results is provided by the professional judgement of the senior analyst. The USEPA-CLP National Functional Guidelines are referred to for specific recommendations.

H. Extraction (preparation) date refers to the date that sample preparation was initiated. Note that certain methods not requiring sample preparation (eg. VOCs in water, etc) may report a common extraction and analysis date.

I. LabMark shall maintain an official copy of this Certificate of Analysis for all tracable reference purposes.

2. CHAIN OF CUSTODY (COC) & SAMPLE RECEIPT NOTICE (SRN) REQUIREMENTS

A. SRN issued to client upon sample receipt & login verification.

B. Preservation & sampling date details specified on COC and SRN, unless noted.

C. Sample Integrity & Validated Time of Sample Receipt (VTSR) Holding Times verified (preservation may extend holding time, refer to preservation chart).

3. NATA ACCREDITED METHODS

A. NATA accreditation held for each method and sample matrix type reported, unless noted below.

B. NATA accredited in-house laboratory methods are referenced from NEPC, ASTM, modified USEPA / APHA documents. Corporate Accreditation No. 13542.

C. Subcontracted analyses: Refer to Sample Receipt Notice and additional DQO comments.

Reported by Aust. Safer Env & Tech., NATA accreditation No. 14484

4. QA/QC FREQUENCY COMPLIANCE TABLE SPECIFIC TO THIS REPORT

Matrix: **SOIL**

Page:	Method:	Totals:	#d	%d-ratio	#t	#s	%s-ratio
1	BTEX by P&T	2	0	0%	0	0	0%
1	Volatile TPH by P&T (vTPH)	2	0	0%	0	0	0%
2	Petroleum Hydrocarbons (TPH)	2	0	0%	0	0	0%
3	Polyaromatic Hydrocarbons (PAH)	2	0	0%	0	0	0%
4	Phenols by GC/MS	1	0	0%	0	0	0%
5	Organochlorine Pesticides (OC)	1	0	0%	0	0	0%
6	Organophosphorus Pesticides (OP)	1	0	0%	0	0	0%
7	Polychlorinated Biphenyls (PCB)	1	0	0%	0	0	0%
8	Acid extractable metals (M7)	2	0	0%	0	0	0%
9	Acid extractable mercury	2	0	0%	0	0	0%
10	Moisture	3	--	--	--	--	--

GLOSSARY:

#d	number of discrete duplicate extractions/analyses performed.
%d-ratio	NEPC guideline for laboratory duplicates is 1 in 10 samples (min 10%).
#t	number of triplicate extractions/analyses performed.
#s	number of spiked samples analysed.
%s-ratio	USEPA guideline for laboratory matrix spikes is 1 in 20 samples (min 5%).

LabMark PTY LTD ABN 27 079 798 397
* SYDNEY: Unit 1, 8 Leighton Place Asquith NSW 2077 * MELBOURNE: 116 Moray Street, South Melbourne VIC 3205
* Telephone: (02) 9476 6533 * Fax: (02) 9476 8219 * Telephone: (03) 9686 8344 * Fax: (03) 9686 7344

5. THERE ARE NO ADDITIONAL COMMENTS SPECIFIC TO THIS REPORT

A. All tests were conducted by LabMark Environmental Sydney, NATA accreditation No. 13542, Corporate Site No. 13535., unless indicated below.
B. The following test was conducted by Aust. Safer Env & Tech., NATA accreditation No. 14484 :- ASBESTOS

Laboratory QA/QC data shall relate specifically to this report, and may provide an indication of site specific sample result quality. LabMark DOES NOT report NON-RELEVANT BATCH QA/QC data. Acceptance of this self assessment certificate does not preclude any requirement for a QA/QC review by a accredited contaminated site EPA auditor, when and wherever necessary. Laboratory QA/QC self assessment references available upon request.

LabMark PTY LTD ABN 27 079 798 397
* SYDNEY: Unit 1, 8 Leighton Place Asquith NSW 2077 * MELBOURNE: 116 Moray Street, South Melbourne VIC 3205
* Telephone: (02) 9476 6533 * Fax: (02) 9476 8219 * Telephone: (03) 9686 8344 * Fax: (03) 9686 7344

Laboratory Report No: E031736
Client Name: HLA - Envirosciences Pty Limited
Contact Name: Kumar Srinivasan
Client Reference Green Square-Police S4075802

Date: 11/05/07
This report supercedes reports issued on: N/A

Final
Certificate
of Analysis

Laboratory Identification		86265	86270	lcs	mb						
Sample Identification		BH10	BH10	QC	QC						
Depth (m)		0.4-0.6	9.0-9.2	--	--						
Sampling Date recorded on COC		5/5/07	5/5/07	--	--						
Laboratory Extraction (Preparation) Date		8/5/07	8/5/07	8/5/07	8/5/07						
Laboratory Analysis Date		10/5/07	10/5/07	9/5/07	9/5/07						
Method : E002.2											
BTEX by P&T	**EQL**										
Benzene	0.2	<0.2	<0.2	98%	<0.2						
Toluene	0.5	<0.5	<0.5	96%	<0.5						
Ethylbenzene	0.5	<0.5	<0.5	92%	<0.5						
meta- and para-Xylene	1	<1	<1	94%	<1						
ortho-Xylene	0.5	<0.5	<0.5	93%	<0.5						
Total Xylene	--	--	--	--	--						
CDFB (Surr @ 10mg/kg)	--	*94%*	*102%*	*105%*	*101%*						
Method : E003.2											
Volatile TPH by P&T (vTPH)	**EQL**										
C6 - C9 Fraction	10	<10	<10	93%	<10						

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E002.2: 8-10g soil extracted with 20ml methanol. Analysis by P&T/GC/PID/MSD.
E003.2: 8-10g soil extracted with 20ml methanol. Analysis by P&T/GC/FID.

Final
Certificate of Analysis

Laboratory Identification		**86265**	**86270**	**lcs**	**mb**						
Sample Identification		BH10	BH10	QC	QC						
Depth (m)		0.4-0.6	9.0-9.2	--	--						
Sampling Date recorded on COC		5/5/07	5/5/07	--	--						
Laboratory Extraction (Preparation) Date		8/5/07	8/5/07	8/5/07	8/5/07						
Laboratory Analysis Date		9/5/07	9/5/07	9/5/07	9/5/07						
Method : E006.2											
Petroleum Hydrocarbons (TPH)	**EQL**										
C10 - C14 Fraction	50	<50	<50	--	<50						
C15 - C28 Fraction	100	110	<100	94%	<100						
C29 - C36 Fraction	100	<100	<100	--	<100						
Sum of TPH C10 - C36	--	110	--	--	--						

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E006.2: 8-10g soil extracted with 20ml DCM/Acetone (8:2). Analysis by GC/FID.

Laboratory Identification		**86265**	**86270**	**lcs**	**mb**						
Sample Identification		BH10	BH10	QC	QC						
Depth (m)		0.4-0.6	9.0-9.2	--	--						
Sampling Date recorded on COC		5/5/07	5/5/07	--	--						
Laboratory Extraction (Preparation) Date		8/5/07	8/5/07	8/5/07	8/5/07						
Laboratory Analysis Date		10/5/07	10/5/07	10/5/07	10/5/07						
Method : E007.2											
Polyaromatic Hydrocarbons (PAH)	**EQL**										
Naphthalene	0.5	<0.5	<0.5	90%	<0.5						
Acenaphthylene	0.5	0.9	<0.5	88%	<0.5						
Acenaphthene	0.5	<0.5	<0.5	85%	<0.5						
Fluorene	0.5	<0.5	<0.5	92%	<0.5						
Phenanthrene	0.5	4.2	<0.5	91%	<0.5						
Anthracene	0.5	1.0	<0.5	86%	<0.5						
Fluoranthene	0.5	8.0	<0.5	86%	<0.5						
Pyrene	0.5	6.6	<0.5	87%	<0.5						
Benz(a)anthracene	0.5	3.5	<0.5	87%	<0.5						
Chrysene	0.5	3.0	<0.5	100%	<0.5						
Benzo(b)&(k)fluoranthene	1	5	<1	98%	<1						
Benzo(a) pyrene	0.5	2.9	<0.5	91%	<0.5						
Indeno(1,2,3-c,d)pyrene	0.5	1.6	<0.5	80%	<0.5						
Dibenz(a,h)anthracene	0.5	<0.5	<0.5	78%	<0.5						
Benzo(g,h,i)perylene	0.5	1.7	<0.5	85%	<0.5						
Sum of reported PAHs	--	38.4	--	--	--						
2-FBP (Surr @ 5mg/kg)	--	*90%*	*78%*	*89%*	*92%*						
TP-d14 (Surr @ 5mg/kg)	--	*103%*	*85%*	*88%*	*100%*						

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E007.2: 8-10g soil extracted with 20ml DCM/acetone (8:2). Analysis by GC/MS.

Laboratory Identification		**86269**	**lcs**	**mb**							
Sample Identification		BH10	QC	QC							
Depth (m)		5.8-6.0	--	--							
Sampling Date recorded on COC		5/5/07	--	--							
Laboratory Extraction (Preparation) Date		8/5/07	8/5/07	8/5/07							
Laboratory Analysis Date		10/5/07	10/5/07	10/5/07							
Method : E008.2											
Phenols by GC/MS	**EQL**										
Phenol	0.5	<0.5	93%	<0.5							
2-chlorophenol	0.5	<0.5	96%	<0.5							
2-methylphenol	0.5	<0.5	85%	<0.5							
3-&4-methylphenol	0.5	<0.5	94%	<0.5							
2-nitrophenol	0.5	<0.5	93%	<0.5							
2,4-dimethylphenol	0.5	<0.5	86%	<0.5							
2,4-dichlorophenol	0.5	<0.5	94%	<0.5							
4-chloro-3-methylphenol	0.5	<0.5	92%	<0.5							
2,4,6-trichlorophenol	0.5	<0.5	87%	<0.5							
2,4,5-trichlorophenol	0.5	<0.5	75%	<0.5							
Pentachlorophenol	1	<1	91%	<1							
Sum of reported phenols	--	--	--	--							
2-FP (Surr @ 5mg/kg)	--	*92%*	*98%*	*105%*							
Phenol-d5 (Surr @ 5mg/kg)	--	*93%*	*95%*	*98%*							
2,4,6-TBP (Surr @ 5mg/kg)	--	*101%*	*95%*	*80%*							

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E008.2: 8-10g soil extracted with 20ml DCM/acetone (8:2). Analysis by GC/MS.

Laboratory Identification		86265	lcs	mb							
Sample Identification		BH10	QC	QC							
Depth (m)		0.4-0.6	--	--							
Sampling Date recorded on COC		5/5/07	--	--							
Laboratory Extraction (Preparation) Date		8/5/07	8/5/07	8/5/07							
Laboratory Analysis Date		10/5/07	10/5/07	10/5/07							
Method : E013.2											
Organochlorine Pesticides (OC)	**EQL**										
a-BHC	0.05	<0.05	128%	<0.05							
Hexachlorobenzene	0.05	<0.05	128%	<0.05							
b-BHC	0.05	<0.05	121%	<0.05							
g-BHC (Lindane)	0.05	<0.05	121%	<0.05							
d-BHC	0.05	<0.05	122%	<0.05							
Heptachlor	0.05	<0.05	119%	<0.05							
Aldrin	0.05	<0.05	121%	<0.05							
Heptachlor epoxide	0.05	<0.05	120%	<0.05							
trans-chlordane	0.05	<0.05	121%	<0.05							
Endosulfan I	0.05	<0.05	129%	<0.05							
cis-chlordane	0.05	<0.05	129%	<0.05							
Dieldrin	0.05	<0.05	122%	<0.05							
4,4-DDE	0.05	<0.05	121%	<0.05							
Endrin	0.05	<0.05	124%	<0.05							
Endosulfan II	0.05	<0.05	122%	<0.05							
4,4-DDD	0.05	<0.05	119%	<0.05							
Endosulfan sulphate	0.05	<0.05	128%	<0.05							
4,4-DDT	0.2	<0.2	118%	<0.2							
Methoxychlor	0.2	<0.2	121%	<0.2							
DBC (Surr @ 0.2mg/kg)	--	*90%*	*98%*	*90%*							

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E013.2: 8-10g soil extracted with 20ml hexane/acetone (1:1). Analysis by GC/dual ECD.

Final
Certificate of Analysis

Laboratory Identification		**86265**	**lcs**	**mb**							
Sample Identification		BH10	QC	QC							
Depth (m)		0.4-0.6	--	--							
Sampling Date recorded on COC		5/5/07	--	--							
Laboratory Extraction (Preparation) Date		8/5/07	8/5/07	8/5/07							
Laboratory Analysis Date		10/5/07	10/5/07	10/5/07							
Method : E014.2											
Organophosphorus Pesticides (OP)	**EQL**										
Dichlorvos	0.5	<0.5	102%	<0.5							
Mevinphos (Phosdrin)	0.5	<0.5	74%	<0.5							
Demeton (total)	1	<1	120%	<1							
Ethoprop	0.5	<0.5	89%	<0.5							
Monocrotophos	0.5	<0.5	71%	<0.5							
Phorate	0.5	<0.5	116%	<0.5							
Dimethoate	0.5	<0.5	102%	<0.5							
Diazinon	0.5	<0.5	97%	<0.5							
Disulfoton	0.5	<0.5	123%	<0.5							
Methyl parathion	0.5	<0.5	123%	<0.5							
Ronnel	0.5	<0.5	110%	<0.5							
Fenitrothion	0.5	<0.5	118%	<0.5							
Malathion	0.5	<0.5	107%	<0.5							
Chlorpyrifos	0.5	<0.5	114%	<0.5							
Fenthion	0.5	<0.5	127%	<0.5							
Parathion	0.5	<0.5	123%	<0.5							
Stirofos	0.5	<0.5	105%	<0.5							
Prothiofos	0.5	<0.5	128%	<0.5							
Azinophos methyl	0.5	<0.5	102%	<0.5							
Coumaphos	0.5	<0.5	121%	<0.5							
TPP (Surr @ 2mg/kg)	--	*114%*	*101%*	*107%*							

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E014.2: 8-10g soil extracted with 20ml hexane/acetone (1:1). Analysis by GC/MSD.

Laboratory Identification		**86265**	**lcs**	**mb**							
Sample Identification		BH10	QC	QC							
Depth (m)		0.4-0.6	--	--							
Sampling Date recorded on COC		5/5/07	--	--							
Laboratory Extraction (Preparation) Date		8/5/07	8/5/07	8/5/07							
Laboratory Analysis Date		10/5/07	10/5/07	10/5/07							
Method : E013.2											
Polychlorinated Biphenyls (PCB)	**EQL**										
Arochlor 1016	0.5	<0.5	--	<0.5							
Arochlor 1232	0.5	<0.5	--	<0.5							
Arochlor 1242	0.5	<0.5	--	<0.5							
Arochlor 1248	0.5	<0.5	109%	<0.5							
Arochlor 1254	0.5	<0.5	--	<0.5							
Arochlor 1260	0.5	<0.5	--	<0.5							
Sum of reported PCBs	--	--	--	--							
DBC (Surr @ 0.2mg/kg)	--	*90%*	*97%*	*90%*							

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E013.2: 8-10g soil extracted with 20ml hexane/acetone (1:1). Analysis by GC/dual ECD.

Laboratory Identification		**86265**	**86270**	**crm**	**lcs**	**mb**					
Sample Identification		BH10	BH10	QC	QC	QC					
Depth (m)		0.4-0.6	9.0-9.2	--	--	--					
Sampling Date recorded on COC		5/5/07	5/5/07	--	--	--					
Laboratory Extraction (Preparation) Date		8/5/07	8/5/07	8/5/07	8/5/07	8/5/07					
Laboratory Analysis Date		9/5/07	9/5/07	9/5/07	9/5/07	9/5/07					
Method : E022.2											
Acid extractable metals (M7)	**EQL**										
Arsenic	1	3	<1	103%	90%	<1					
Cadmium	0.1	0.2	<0.1	96%	104%	<0.1					
Chromium	1	5	1	91%	81%	<1					
Copper	2	71	5	101%	89%	<2					
Nickel	1	5	<1	89%	87%	<1					
Lead	2	180	5	98%	102%	<2					
Zinc	5	140	5	83%	82%	<5					

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E022.2: 0.5g digested in nitric/hydrochloric acid. Analysis by ICP-MS.

Laboratory Identification		**86265**	**86270**	**crm**	**lcs**	**mb**					
Sample Identification		BH10	BH10	QC	QC	QC					
Depth (m)		0.4-0.6	9.0-9.2	--	--	--					
Sampling Date recorded on COC		5/5/07	5/5/07	--	--	--					
Laboratory Extraction (Preparation) Date		8/5/07	8/5/07	8/5/07	8/5/07	8/5/07					
Laboratory Analysis Date		9/5/07	9/5/07	8/5/07	8/5/07	8/5/07					
Method : E026.2											
Acid extractable mercury	**EQL**										
Mercury	0.05	0.21	<0.05	101%	100%	<0.05					

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E026.2: 0.5g digested with nitric/hydrochloric acid. Analysis by CV-ICP-MS or FIMS.

Final
Certificate of Analysis

Laboratory Identification		**86265**	**86269**	**86270**							
Sample Identification		BH10	BH10	BH10							
Depth (m)		0.4-0.6	5.8-6.0	9.0-9.2							
Sampling Date recorded on COC		5/5/07	5/5/07	5/5/07							
Laboratory Extraction (Preparation) Date		8/5/07	8/5/07	8/5/07							
Laboratory Analysis Date		9/5/07	9/5/07	9/5/07							
Method : E005.2											
Moisture	**EQL**										
Moisture	--	18	46	15							

Results expressed in % w/w unless otherwise specified

Comments:

E005.2: Moisture by gravimetric analysis. Results are in % w/w.

AUSTRALIAN SAFER ENVIRONMENT & TECHNOLOGY PTY LTD

ABN 36 088 095 112

Our ref : ASET 11947/ 15127 / 1 - 1
Your ref: E031736
NATA Accreditation No: 14484

9 May 2007

LABMARK
P O Box 641
Hornsby NSW 1630

Attn: Ms Jakleen El Galada

Dear Jakleen,

Asbestos Identification
This report presents the results of one sample, forwarded by LABMARK, on 8 May 2007, for analysis for asbestos.

1.Introduction: One sample forwarded was examined and analysed for the presence of asbestos.

2. Methods : The sample was examined under a Stereo Microscope and selected fibres were analysed by Polarized Light Microscopy in conjunction with Dispersion Staining method **(Safer Environment Method 1.)**

3. Results : **Sample No. 1. ASET 11947 / 15127 / 1. E031736 - 86272 - BH10 - 0.7.**
Approx dimensions 14.0 cm x 4.0 cm x 3.0 cm
The sample consisted of a mixture of clayish sandy soil, stones, plant matter, fragments of plaster and brick.
No asbestos detected.

Analysed and reported by,

Karu Jayasundara. BSc (Hons) MAus IMM.
Mineralogist / Chartered Professional of Geology
Approved Signatory.

NATA
WORLD RECOGNISED
ACCREDITATION

Quality, Service, Support

Report Date : 7/05/2007
Report Time : 11:10:48AM

Sample **Receipt** Notice (SRN) for **E031736**

Client Details		Laboratory Reference Information	
Client Name:	HLA - Envirosciences Pty Limited	**Please have this information ready when contacting Labmark.**	
Client Phone:	02 8484 8999		
Client Fax:	02 8484 8989	**Laboratory Report:**	**E031736**
Contact Name:	Kumar Srinivasan	**Quotation Number:**	Q0271.ES
Contact Email:	ksrinivasan@hla-enviro.com.au	**Laboratory Address:**	Unit 1, 8 Leighton Pl. Asquith NSW 2077
Client Address:	PO Box 726 Pymble NSW 2073	**Phone:**	61 2 9476 6533
		Fax:	61 2 9476 8219
Project Name:	Green Square-Police	**Sample Receipt Contact:**	Jakleen El Galada
Project Number:	S4075802	**Email:**	jakleen.galada@labmark.com.au
CoC Number:	- Not provided -	**Reporting Contact:**	Jyothi Lal
Purchase Order:	14399	**Email:**	jyothi.lal@labmark.com.au
Surcharge:	No surcharge applied (results by 6:30pm on due date)		
Sample Matrix:	SOIL		
Date Sampled (earliest date):	02/05/2007	**NATA Accreditation:**	13542
Date Samples Received:	04/05/2007	**TGA GMP License:**	185-336 (Sydney)
Date Sample Receipt Notice issued:	07/05/2007	**APVMA License:**	6105 (Sydney)
Date Preliminary Report Due:	11/05/2007	**AQIS Approval:**	NO356 (Sydney)
		AQIS Entry Permit:	200521534 (Sydney)

Reporting Requirements: Electronic Data Download required: No

Sample Condition: COC received with samples. Report number and lab ID's defined on COC.
Samples received in good order .
Samples received with cooling media: Crushed ice .
Samples received chilled.
Security seals not required. Direct Labmark's custody taken .
Sample container & chemical preservation suitable .

Comments: Asbestos subcontracted to ASET. Sample 86267 missing.

Holding Times: Date received allows for sufficient time to meet Technical Holding Times.

Preservation: Chemical preservation of samples satisfactory for requested analytes.

Important Notes:

LabMark shall responsibly dispose of spent customer soil and water samples which includes the disintegration of the sample label. A sample disposal fee of $1.00 is applicable on all samples received by the laboratory regardless of whether they have undergone analytical testing. Sample disposal of environmental samples shall be 31 days (water) and 3 months (soil, HN03 preserved samples) after laboratory receipt, unless otherwise requested in writing by the client. Samples requested to be held in non-refrigerated storage shall incur $5.00/ sample/ 3 months. Additional refrigerated storage shall incur $30/ sample/ 3 months. Combination prices apply only if requested. Transfer of report ownership from LabMark to the client shall occur once full and final payment has been settled and verified. All report copies may be retracted where full payment does not occur within the agreed settlement period.

Analysis comments:

Subcontracted Analyses:

Reported by Aust. Safer Env & Tech., NATA accreditation No. 14484

Thank you for choosing Labmark to analyse your project samples.

Additional information on www.labmark.com.au

Quality, Service, Support

Report Date : 7/05/2007
Report Time : 11:10:48AM

Sample **Receipt** Notice (SRN) for **E031736**

The table below represents LabMark's understanding and interpretation of the customer supplied sample COC request. Please confirm that your COC request has been entered correctly. Due to THT and TAT requirements, testing shall commence immediately as per this table, unless the customer intervenes with a correction prior to testing.

GRID REVIEW TABLE

No.	Date	Depth	Client Sample ID	Requested Analysis: BTEX by P&T	Acid extractable mercury	HOLD ON HOLD	Acid extractable metals (M7)	MISSING	Moisture	Organochlorine Pesticides (OC)	Organophosphorus Pesticides (OP)	Polyaromatic Hydrocarbons (PAH)	Polychlorinated Biphenyls (PCB)	Phenols by GC/MS	PREP Not Reported	Petroleum Hydrocarbons (TPH)	Volatile TPH by P&T (vTPH)	External Not reported- Asbestos					
86265	05/05	0.4-0.6	BH10	●	●		●		●	●	●	●	●		●	●	●						
86266	05/05	2.4-2.9	BH10			●																	
86267	05/05	2.9-3.0	BH10					●															
86268	05/05	3.2-3.4	BH10			●																	
86269	05/05	5.8-6.0	BH10						●					●	●								
86270	05/05	9.0-9.2	BH10	●	●		●		●			●			●	●	●						
86271	02/05	2.9-3.0	BH8			●																	
86272	02/05	0.7	BH10												●			●					
			Totals:	2	2	3	2	1	3	1	1	2	1	1	4	2	2	1					

Thank you for choosing Labmark to analyse your project samples.
Additional information on www.labmark.com.au

LabMark

Quality, Service, Support

Report Date : 7/05/2007
Report Time : 11:10:48AM

Sample **Receipt** Notice (SRN) for **E031736**

No.	Date	Depth	Client Sample ID	Requested Analysis: M8 - M7-T_S																			
86265	05/05	0.4-0.6	BH10	●																			
86270	05/05	9.0-9.2	BH10	●																			
			Totals:	2																			

Thank you for choosing Labmark to analyse your project samples.
Additional information on www.labmark.com.au

HLA Page 1/1

CHAIN OF CUSTODY

HLA - Envirosciences Pty Limited - Sydney
Level 5, 828 Pacific Hwy
PO Box 726 Pymble NSW 2073
Gordon NSW 2072 Australia
Tel: 61 2 8484 8999
Fax: 61 2 8484 8989
E-mail: mail@syd.hla-enviro.com.au

Laboratory Details
Lab Name: Labmark
Lab Address Asquith
Contact Name:
Lab. Ref:
Tel:
Fax
Preliminary Report by:
Final Report by:
Lab Quote No: Q0241.FS

Sampled By: Kate O'Brien
HLA Project No: 34075802
Project Name: Green Square - Police
PO No. 143499

Specifications: Esdat Project Manager: Kumer Srinivasan

	Yes (tick)
1. Urgent TAT required? (please circle: 24hr 48hr _____days)	
2. Fast TAT Guarantee Required?	
3. Is any sediment layer present in waters to be excluded from extractions?	
4. % extraneous material removed from samples to be reported as per NEPM 5.1.1?	
5. Special storage requirements? (details: _____)	
6. Shell Quality Partnership:	
7. Report Format: ☐ Fax ☐ Hardcopy ☑ Email :	

Lab. ID	Sample ID	Sampling Date	Matrix: soil	water	other	Preservation: filt'ed	acid	ice	other	Container (No. & type)	Analysis Request: BTEX + TPH	Metals*	PAH's	OCP	OPP	PCB	SVOC	VOC	TPH	Lead	TCLP Heavy Metals	TCLP PAH's	Phenols	VHC	Speciated TPH	Other: Asbestos			HOLD
86265	BH10_0.4-0.6	3.5.07	X					X		Soil jar	✓	X	X	X	X	X													
86266	BH10_2.4-2.9	"	X					X		"																			X
86267	BH10_2.9-3.0	"	X					X		"								Remediation Report											X
86268	BH10_3.2-3.4	"	X					X		"																			X
86269	BH10_5.8-6.0	"	X					X		"													X						
86270	BH10_9.0-9.2	"	X					X		"	X	X	X																
86271	BH8_2.9-3.0	2.5.07	X					X		"																			X
86272	BH10_0.7	2.5.07	X					X		plastic bag																X			

* Metals Required (Delete elements not required): As Cd Cr Cu Ni Pb Zn Hg

Comments:

Lab Report No. E031736

Esky ID

Relinquished by: Kate O'Brien Signed: Date: 4-5-07

Recieved by: Signed: Date:

Relinquished by: Signed: Date:

Recieved by: MD Signed: MH Date: 4/5

Field_Worksheet_FORM025_Dec04

AUSTRALIAN SAFER ENVIRONMENT & TECHNOLOGY PTY LTD

ABN 36 088 095 112

Our ref : ASET 11947/ 15127 / 1 - 1
Your ref: E031736
NATA Accreditation No: 14484

9 May 2007

LABMARK
P O Box 641
Hornsby NSW 1630

Attn: Ms Jakleen El Galada

Dear Jakleen,

Asbestos Identification
This report presents the results of one sample, forwarded by LABMARK, on 8 May 2007, for analysis for asbestos.

1.Introduction: One sample forwarded was examined and analysed for the presence of asbestos.

2. Methods : The sample was examined under a Stereo Microscope and selected fibres were analysed by Polarized Light Microscopy in conjunction with Dispersion Staining method **(Safer Environment Method 1.)**

3. Results : **Sample No. 1. ASET 11947 / 15127 / 1. E031736 - 86272 - BH10 - 0.7.**
Approx dimensions 14.0 cm x 4.0 cm x 3.0 cm
The sample consisted of a mixture of clayish sandy soil, stones, plant matter, fragments of plaster and brick.
No asbestos detected.

Analysed and reported by,

Karu Jayasundara. BSc (Hons) MAus IMM.
Mineralogist / Chartered Professional of Geology
Approved Signatory.

NATA
WORLD RECOGNISED
ACCREDITATION

Quality, Service, Support

Report Date : 9/05/2007
Report Time : 10:32:23AM

Sample **Receipt** Notice (SRN) for **E031791**

Client Details		Laboratory Reference Information	
Client Name:	HLA - Envirosciences Pty Limited	**Please have this information ready when contacting Labmark.**	
Client Phone:	02 8484 8999		
Client Fax:	02 8484 8989	**Laboratory Report:**	**E031791**
Contact Name:	Kumar Srinivasan	**Quotation Number:**	Q0271.ES
Contact Email:	ksrinivasan@hla-enviro.com.au	**Laboratory Address:**	Unit 1, 8 Leighton Pl. Asquith NSW 2077
Client Address:	PO Box 726 Pymble NSW 2073	**Phone:**	61 2 9476 6533
		Fax:	61 2 9476 8219
Project Name:	Green Square - Police	**Sample Receipt Contact:**	Jakleen El Galada
Project Number:	S4075802	**Email:**	jakleen.galada@labmark.com.au
CoC Number:	- Not provided -	**Reporting Contact:**	Jyothi Lal
Purchase Order:	14399	**Email:**	jyothi.lal@labmark.com.au
Surcharge:	No surcharge applied (results by 6:30pm on due date)		
Sample Matrix:	SOIL		
Date Sampled (earliest date):	04/05/2007	**NATA Accreditation:**	13542
Date Samples Received:	08/05/2007	**TGA GMP License:**	185-336 (Sydney)
Date Sample Receipt Notice issued:	09/05/2007	**APVMA License:**	6105 (Sydney)
Date Preliminary Report Due:	15/05/2007	**AQIS Approval:**	NO356 (Sydney)
		AQIS Entry Permit:	200521534 (Sydney)

Reporting Requirements: Electronic Data Download required: Yes

Sample Condition: COC received with samples. Report number and lab ID's defined on COC.
Samples received in good order .
Samples received with cooling media: Crushed ice .
Samples received chilled.
Security seals not required. Direct Labmark's custody taken .
Sample container & chemical preservation suitable .

Comments: Asbestos subcontracted to ASET.

Holding Times: Date received allows for sufficient time to meet Technical Holding Times.

Preservation: Chemical preservation of samples satisfactory for requested analytes.

Important Notes:

LabMark shall responsibly dispose of spent customer soil and water samples which includes the disintegration of the sample label. A sample disposal fee of $1.00 is applicable on all samples received by the laboratory regardless of whether they have undergone analytical testing. Sample disposal of environmental samples shall be 31 days (water) and 3 months (soil, HN03 preserved samples) after laboratory receipt, unless otherwise requested in writing by the client. Samples requested to be held in non-refrigerated storage shall incur $5.00/ sample/ 3 months. Additional refrigerated storage shall incur $30/ sample/ 3 months. Combination prices apply only if requested. Transfer of report ownership from LabMark to the client shall occur once full and final payment has been settled and verified. All report copies may be retracted where full payment does not occur within the agreed settlement period.

Analysis comments:

Subcontracted Analyses:

Reported by Aust. Safer Env & Tech., NATA accreditation No. 14484

Thank you for choosing Labmark to analyse your project samples.

Additional information on www.labmark.com.au

Report Date : 9/05/2007
Report Time : 10:32:23AM

Quality, Service, Support

Sample **Receipt** Notice (SRN) for **E031791**

The table below represents LabMark's understanding and interpretation of the customer supplied sample COC request. Please confirm that your COC request has been entered correctly. Due to THT and TAT requirements, testing shall commence immediately as per this table, unless the customer intervenes with a correction prior to testing.

GRID REVIEW TABLE

No.	Date	Depth	Client Sample ID	Requested Analysis																			
				BTEX by P&T	Acid extractable mercury	HOLD ON HOLD	Acid extractable metals (M7)	Moisture	Organochlorine Pesticides (OC)	Organophosphorus Pesticides (OP)	Polyaromatic Hydrocarbons (PAH)	Polychlorinated Biphenyls (PCB)	Phenols by GC/MS	PREP Not Reported	Petroleum Hydrocarbons (TPH)	Volatile TPH by P&T (vTPH)	External Not reported- Asbestos						
86946	04/05	0.2-0.3	BH14	●	●		●	●	●	●	●	●		●	●	●							
86947	04/05	0.6-0.8	BH14			●																	
86948	04/05	1.3-1.5	BH14			●																	
86949	04/05	2.2-2.5	BH14			●																	
86950	04/05	3.0-4.0	BH14					●					●	●									
86951	04/05	5.0-6.0	BH14			●																	
86952	04/05		DUP04			●																	
86953	07/05	9.2-9.3	BH14	●	●		●	●			●			●	●	●							
86954	07/05	0.0	BH14											●			●						
			Totals:	2	2	5	2	3	1	1	2	1	1	4	2	2	1						

Thank you for choosing Labmark to analyse your project samples.
Additional information on www.labmark.com.au

Quality, Service, Support

Report Date : 9/05/2007
Report Time : 10:32:23AM

Sample **Receipt** Notice (SRN) for **E031791**

No.	Date	Depth	Client Sample ID	Requested Analysis: M8 - M7-T_S																			
86946	04/05	0.2-0.3	BH14	●																			
86953	07/05	9.2-9.3	BH14	●																			
			Totals:	2																			

Thank you for choosing Labmark to analyse your project samples.
Additional information on www.labmark.com.au

CHAIN OF CUSTODY

HLA

HLA - Envirosciences Pty Limited - Sydney
Level 5, 828 Pacific Hwy
PO Box 726 Pymble NSW 2073
Gordon NSW 2072 Australia
Tel: 61 2 8484 8999
Fax: 61 2 8484 8989
E-mail: mail@syd.hla-enviro.com.au

Laboratory Details
Lab Name: Labmark
Lab Address Asquith
Contact Name:
Lab. Ref:
Tel:
Fax
Preliminary Report by:
Final Report by:
Lab Quote No: Q0241. E5

Sampled By: Kate O'Brien
HLA Project No: 84075802
Project Name: Green Square - Police
PO No. 1434494

Specifications: Please email results to Ksrinivasan@hla-enviro.com.au

	Yes (tick)
1. Urgent TAT required? (please circle: 24hr 48hr _____days)	
2. Fast TAT Guarantee Required?	
3. Is any sediment layer present in waters to be excluded from extractions?	
4. % extraneous material removed from samples to be reported as per NEPM 5.1.1?	
5. Special storage requirements? (details: _____)	
6. Shell Quality Partnership:	
7. Report Format: ☐ Fax ☐ Hardcopy ☐ Email :	

Lab. ID	Sample ID	Sampling Date	Matrix: soil	water	other	Preservation: filt'ed	acid	ice	other	Container (No. & type)	Analysis Request: BTEX + TPH	Metals*	PAH's	OCP	OPP	PCB	SVOC	VOC	TPH	Lead	TCLP Heavy Metals	TCLP PAH's	Phenols	VHC	Speciated TPH	Other: HOLD	Asbestos
86946	BH14_0.2-0.3	4.05.07	X					X		60g Jar	X	X	X	X	X	X										X	
86947	BH14_0.6-0.8	"	X					X		"																X	
86948	BH14_1.3-1.5	"	X					X		"																X	
86949	BH14_2.2-2.5	"	X					X		"													X				
86950	BH14_3.8-4.0	"	X					X		"																	
86951	BH14_5.8-6.0	"	X					X		"																X	
86952	DUP04	"	X					X		"	X	X	X														X
86953	BH14_9.2-9.3	7/5/07	X					X		"																	
86954	BH14_0.0	4/5/07	X					X		plastic bag																	X

* Metals Required (Delete elements not required): As Cd Cr Cu Ni Pb Zn Hg

Comments:

Lab Report No. EB03179 | Esky ID

Relinquished by: Alex Symatowicz Signed: Date: 8/5/07
Recieved by: Signed: Date:
Relinquished by: Signed: Date: 8/5/07
Recieved by: Signed: Date:

Field_Worksheet_FORM025_Dec04

CUSTOMER CENTRIC - ANALYTICAL CHEMISTS

No. 13542.

Accredited for compliance with ISO/IEC 17025. The results of tests, calibrations and/or measurements included in this document are traceable to Australian/national standards. NATA is a signatory to the APLAC mutual recognition arrangement for the mutual recognition of the equivalence of testing, calibration and inspection reports.

AUSTRALIAN QUARANTINE AND INSPECTION SERVICE

SYDNEY License No. N0356.

Quarantine Approved Premises criteria 5.1 for quarantine containment level 1 (QCI) facilities. Class five criteria cover premises utilised for research, analysis and testing of biological material, soil, animal, plant and human products.

FINAL CERTIFICATE OF ANALYSIS - ENVIRONMENTAL DIVISION

Laboratory Report No:	E031791
Client Name:	HLA - Envirosciences Pty Limited
Client Reference:	Green Square - Police
Contact Name:	Kumar Srinivasan
Chain of Custody No:	na
Sample Matrix:	SOIL

Cover Page 1 of 4
plus Sample Results

Date Received: 08/05/2007
Date Reported: 15/05/2007

This Final Certificate of Analysis consists of sample results, DQI's, method descriptions, laboratory definitions, and internationally recognised NATA accreditation and endorsement. The DQO compliance relates specifically to QA/QC results as performed as part of the sample analysis, and may provide an indication of sample result quality. Transfer of report ownership from Labmark to the client shall only occur once full & final payment has been settled and verified. All report copies may be retracted where full payment has not occured within the agreed settlement period.

QUALITY ASSURANCE CRITERIA

Accuracy:	matrix spike:	1 in first 5-20, then 1 every 20 samples
	lcs, crm, method:	1 per analytical batch
	surrogate spike:	addition per target organic method
Precision:	laboratory duplicate:	1 in first 5-10, then 1 every 10 samples
	laboratory triplicate:	re-extracted & reported when duplicate RPD values exceed acceptance criteria
Holding Times:	soils, waters:	Refer to LabMark Preservation & THT table VOC's 14 days water / soil VAC's 7 days water or 14 days acidified VAC's 14 days soil SVOC's 7 days water, 14 days soil Pesticides 7 days water, 14 days soil Metals 6 months general elements Mercury 28 days
Confirmation:	target organic analysis:	GC/MS, or confirmatory column
Sensitivity:	EQL:	Typically 2-5 x Method Detection Limit (MDL)

QUALITY CONTROL GLOBAL ACCEPTANCE CRITERIA (GAC)

Accuracy:	spike, lcs, crm surrogate:	general analytes 70% - 130% recovery phenol analytes 50% - 130% recovery organophosphorous pesticide analytes 60% - 130% recovery phenoxy acid herbicides 50% - 130% recovery
	anion/cation bal:	+/- 10% (0-3 meq/l), +/- 5% (>3 meq/l)
Precision:	method blank:	not detected >95% of the reported EQL
	duplicate lab RPD (metals):	0-30% (>10xEQL), 0-75% (5-10xEQL) 0-100% (<5xEQL)
	duplicate lab RPD:	0-50% (>10xEQL), 0-75% (5-10xEQL) 0-100% (<5xEQL)

QUALITY CONTROL ANALYTE SPECIFIC ACCEPTANCE CRITERIA (ASAC)

Accuracy:	spike, lcs, crm surrogate:	analyte specific recovery data <3xsd of historical mean
Uncertainty:	spike, lcs:	measurement calculated from historical analyte specific control charts

RESULT ANNOTATION

Data Quality Objective	s:	matrix spike recovery	p:	pending	bcs:	batch specific lcs
Data Quality Indicator	d:	laboratory duplicate	lcs:	laboratory control sample	bmb:	batch specific mb
Estimated Quantitation Limit	t:	laboratory triplicate	crm:	certified reference material		
not applicable	r:	RPD relative % difference	mb:	method blank		

David Burns
Quality Control (Report signatory)
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Geoff Weir
Authorising Chemist (NATA signatory)
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Laboratory Report: E031791

NEPC GUIDELINE COMPLIANCE - DQO

1. GENERAL

A. Results relate specifically to samples as received. Sample results are not corrected for matrix spike, lcs, or surrogate recovery data.

B. EQL's are matrix dependant and may be increased due to sample dilution or matrix interference.

C. Laboratory QA/QC samples are specific to this project.

D. Inter-laboratory proficiency results are available upon request. NATA accreditation details available at www.nata.asn.au.

E. VOC spikes & surrogates added to samples during extraction, SVOC spikes & surrogates added prior to extraction.

F. Recovery data outside GAC limits shall be investigated and compared to ASAC (historical mean +/- 3sd). If recovery data <20%, then the relevant results for that compound are considered not reliable.

G. Recovery data (ms, surrogate, crm, lcs) outside ASAC limits shall initiate an investigative action. Anomolous QC data is examined in conjunction with other QC samples and a final decision whether to accept or reject results is provided by the professional judgement of the senior analyst. The USEPA-CLP National Functional Guidelines are referred to for specific recommendations.

H. Extraction (preparation) date refers to the date that sample preparation was initiated. Note that certain methods not requiring sample preparation (eg. VOCs in water, etc) may report a common extraction and analysis date.

I. LabMark shall maintain an official copy of this Certificate of Analysis for all tracable reference purposes.

2. CHAIN OF CUSTODY (COC) & SAMPLE RECEIPT NOTICE (SRN) REQUIREMENTS

A. SRN issued to client upon sample receipt & login verification.

B. Preservation & sampling date details specified on COC and SRN, unless noted.

C. Sample Integrity & Validated Time of Sample Receipt (VTSR) Holding Times verified (preservation may extend holding time, refer to preservation chart).

3. NATA ACCREDITED METHODS

A. NATA accreditation held for each in-house method and sample matrix type reported, unless noted below (Refer to subcontracted test reports for NATA accreditation status).

B. NATA accredited in-house laboratory methods are referenced from NEPC, ASTM, modified USEPA / APHA documents. Corporate Accreditation No. 13542.

C. Subcontracted analyses: Refer to Sample Receipt Notice and additional DQO comments.

Reported by Aust. Safer Env & Tech., NATA accreditation No. 14484

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4. QA/QC FREQUENCY COMPLIANCE TABLE SPECIFIC TO THIS REPORT

Matrix: **SOIL**

Page:	Method:	Totals:	#d	%d-ratio	#t	#s	%s-ratio
1	BTEX by P&T	2	0	0%	0	0	0%
1	Volatile TPH by P&T (vTPH)	2	0	0%	0	0	0%
2	Petroleum Hydrocarbons (TPH)	2	0	0%	0	0	0%
3	Polyaromatic Hydrocarbons (PAH)	2	0	0%	0	0	0%
4	Phenols by GC/MS	1	0	0%	0	0	0%
5	Organochlorine Pesticides (OC)	1	0	0%	0	0	0%
6	Organophosphorus Pesticides (OP)	1	0	0%	0	0	0%
7	Polychlorinated Biphenyls (PCB)	1	0	0%	0	0	0%
8	Acid extractable metals (M7)	2	0	0%	0	0	0%
9	Acid extractable mercury	2	0	0%	0	0	0%
10	Moisture	3	--	--	--	--	--

GLOSSARY:

#d	number of discrete duplicate extractions/analyses performed.
%d-ratio	NEPC guideline for laboratory duplicates is 1 in 10 samples (min 10%).
#t	number of triplicate extractions/analyses performed.
#s	number of spiked samples analysed.
%s-ratio	USEPA guideline for laboratory matrix spikes is 1 in 20 samples (min 5%).

5. ADDITIONAL COMMENTS SPECIFIC TO THIS REPORT

A. All tests were conducted by LabMark Environmental Sydney, NATA accreditation No. 13542, Corporate Site No. 13535, unless indicated below.
B. Asbestos analysed by ASET,ASET reference ASET11970/15150/1-1, refer to report attached.

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CUSTOMER CENTRIC - ANALYTICAL CHEMISTS

Environmental Laboratory Industry Group

Foundation Member

Laboratory Report: E031791

Laboratory QA/QC data shall relate specifically to this report, and may provide an indication of site specific sample result quality. LabMark DOES NOT report NON-RELEVANT BATCH QA/QC data. Acceptance of this self assessment certificate does not preclude any requirement for a QA/QC review by a accredited contaminated site EPA auditor, when and wherever necessary. Laboratory QA/QC self assessment references available upon request.

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Laboratory Report No: E031791
Client Name: HLA - Envirosciences Pty Limited
Contact Name: Kumar Srinivasan
Client Reference Green Square - Police S4075802

Page: 1 of 10
plus cover page
Date: 15/05/07
This report supercedes reports issued on: N/A

Final
Certificate
of Analysis

Laboratory Identification		**86946**	**86953**	**lcs**	**mb**						
Sample Identification		BH14	BH14	QC	QC						
Depth (m)		0.2-0.3	9.2-9.3	--	--						
Sampling Date recorded on COC		4/5/07	7/5/07	--	--						
Laboratory Extraction (Preparation) Date		10/5/07	10/5/07	10/5/07	10/5/07						
Laboratory Analysis Date		12/5/07	12/5/07	11/5/07	11/5/07						
Method : E002.2											
BTEX by P&T	**EQL**										
Benzene	0.2	<0.2	<0.2	107%	<0.2						
Toluene	0.5	<0.5	<0.5	104%	<0.5						
Ethylbenzene	0.5	<0.5	<0.5	100%	<0.5						
meta- and para-Xylene	1	<1	<1	101%	<1						
ortho-Xylene	0.5	<0.5	<0.5	100%	<0.5						
Total Xylene	--	--	--	--	--						
CDFB (Surr @ 10mg/kg)	--	*106%*	*103%*	*111%*	*107%*						
Method : E003.2											
Volatile TPH by P&T (vTPH)	**EQL**										
C6 - C9 Fraction	10	<10	<10	100%	<10						

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E002.2: 8-10g soil extracted with 20ml methanol. Analysis by P&T/GC/PID/MSD.
E003.2: 8-10g soil extracted with 20ml methanol. Analysis by P&T/GC/FID.

Final
Certificate of Analysis

Laboratory Identification		**86946**	**86953**	**lcs**	**mb**						
Sample Identification		BH14	BH14	QC	QC						
Depth (m)		0.2-0.3	9.2-9.3	--	--						
Sampling Date recorded on COC		4/5/07	7/5/07	--	--						
Laboratory Extraction (Preparation) Date		10/5/07	10/5/07	10/5/07	10/5/07						
Laboratory Analysis Date		12/5/07	12/5/07	11/5/07	11/5/07						
Method : E006.2											
Petroleum Hydrocarbons (TPH)	**EQL**										
C10 - C14 Fraction	50	<50	<50	--	<50						
C15 - C28 Fraction	100	<100	<100	84%	<100						
C29 - C36 Fraction	100	<100	<100	--	<100						
Sum of TPH C10 - C36	--	--	--	--	--						

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E006.2: 8-10g soil extracted with 20ml DCM/Acetone (8:2). Analysis by GC/FID.

Laboratory Identification		**86946**	**86953**	**lcs**	**mb**						
Sample Identification		BH14	BH14	QC	QC						
Depth (m)		0.2-0.3	9.2-9.3	--	--						
Sampling Date recorded on COC		4/5/07	7/5/07	--	--						
Laboratory Extraction (Preparation) Date		10/5/07	10/5/07	10/5/07	10/5/07						
Laboratory Analysis Date		12/5/07	12/5/07	11/5/07	11/5/07						
Method : E007.2											
Polyaromatic Hydrocarbons (PAH)	**EQL**										
Naphthalene	0.5	<0.5	<0.5	95%	<0.5						
Acenaphthylene	0.5	<0.5	<0.5	96%	<0.5						
Acenaphthene	0.5	<0.5	<0.5	94%	<0.5						
Fluorene	0.5	<0.5	<0.5	95%	<0.5						
Phenanthrene	0.5	<0.5	<0.5	99%	<0.5						
Anthracene	0.5	<0.5	<0.5	97%	<0.5						
Fluoranthene	0.5	0.5	<0.5	98%	<0.5						
Pyrene	0.5	0.5	<0.5	97%	<0.5						
Benz(a)anthracene	0.5	<0.5	<0.5	103%	<0.5						
Chrysene	0.5	<0.5	<0.5	99%	<0.5						
Benzo(b)&(k)fluoranthene	1	<1	<1	109%	<1						
Benzo(a) pyrene	0.5	<0.5	<0.5	106%	<0.5						
Indeno(1,2,3-c,d)pyrene	0.5	<0.5	<0.5	89%	<0.5						
Dibenz(a,h)anthracene	0.5	<0.5	<0.5	90%	<0.5						
Benzo(g,h,i)perylene	0.5	<0.5	<0.5	90%	<0.5						
Sum of reported PAHs	--	1.0	--	--	--						
2-FBP (Surr @ 5mg/kg)	--	*100%*	*103%*	*99%*	*101%*						
TP-d14 (Surr @ 5mg/kg)	--	*97%*	*97%*	*101%*	*100%*						

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E007.2: 8-10g soil extracted with 20ml DCM/acetone (8:2). Analysis by GC/MS.

Laboratory Identification		**86950**	**lcs**	**mb**							
Sample Identification		BH14	QC	QC							
Depth (m)		3.8-4.0	--	--							
Sampling Date recorded on COC		4/5/07	--	--							
Laboratory Extraction (Preparation) Date		10/5/07	10/5/07	10/5/07							
Laboratory Analysis Date		12/5/07	10/5/07	10/5/07							
Method : E008.2											
Phenols by GC/MS	**EQL**										
Phenol	0.5	<0.5	116%	<0.5							
2-chlorophenol	0.5	<0.5	99%	<0.5							
2-methylphenol	0.5	<0.5	106%	<0.5							
3-&4-methylphenol	0.5	<0.5	102%	<0.5							
2-nitrophenol	0.5	<0.5	102%	<0.5							
2,4-dimethylphenol	0.5	<0.5	107%	<0.5							
2,4-dichlorophenol	0.5	<0.5	98%	<0.5							
4-chloro-3-methylphenol	0.5	<0.5	87%	<0.5							
2,4,6-trichlorophenol	0.5	<0.5	100%	<0.5							
2,4,5-trichlorophenol	0.5	<0.5	113%	<0.5							
Pentachlorophenol	1	<1	111%	<1							
Sum of reported phenols	--	--	--	--							
2-FP (Surr @ 5mg/kg)	--	*89%*	*96%*	*102%*							
Phenol-d5 (Surr @ 5mg/kg)	--	*95%*	*100%*	*94%*							
2,4,6-TBP (Surr @ 5mg/kg)	--	*83%*	*105%*	*91%*							

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E008.2: 8-10g soil extracted with 20ml DCM/acetone (8:2). Analysis by GC/MS.

Laboratory Identification		**86946**	**lcs**	**mb**							
Sample Identification		BH14	QC	QC							
Depth (m)		0.2-0.3	--	--							
Sampling Date recorded on COC		4/5/07	--	--							
Laboratory Extraction (Preparation) Date		10/5/07	10/5/07	10/5/07							
Laboratory Analysis Date		12/5/07	12/5/07	12/5/07							
Method : E013.2											
Organochlorine Pesticides (OC)	**EQL**										
a-BHC	0.05	<0.05	100%	<0.05							
Hexachlorobenzene	0.05	<0.05	104%	<0.05							
b-BHC	0.05	<0.05	107%	<0.05							
g-BHC (Lindane)	0.05	<0.05	106%	<0.05							
d-BHC	0.05	<0.05	110%	<0.05							
Heptachlor	0.05	<0.05	103%	<0.05							
Aldrin	0.05	<0.05	105%	<0.05							
Heptachlor epoxide	0.05	<0.05	120%	<0.05							
trans-chlordane	0.05	<0.05	105%	<0.05							
Endosulfan I	0.05	<0.05	102%	<0.05							
cis-chlordane	0.05	<0.05	102%	<0.05							
Dieldrin	0.05	<0.05	105%	<0.05							
4,4-DDE	0.05	<0.05	105%	<0.05							
Endrin	0.05	<0.05	104%	<0.05							
Endosulfan II	0.05	<0.05	106%	<0.05							
4,4-DDD	0.05	<0.05	104%	<0.05							
Endosulfan sulphate	0.05	<0.05	106%	<0.05							
4,4-DDT	0.2	<0.2	100%	<0.2							
Methoxychlor	0.2	<0.2	105%	<0.2							
DBC (Surr @ 0.2mg/kg)	--	*85%*	*119%*	*98%*							

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E013.2: 8-10g soil extracted with 20ml hexane/acetone (1:1). Analysis by GC/dual ECD.

Laboratory Identification		**86946**	**lcs**	**mb**							
Sample Identification		BH14	QC	QC							
Depth (m)		0.2-0.3	--	--							
Sampling Date recorded on COC		4/5/07	--	--							
Laboratory Extraction (Preparation) Date		10/5/07	10/5/07	10/5/07							
Laboratory Analysis Date		11/5/07	11/5/07	11/5/07							
Method : E014.2											
Organophosphorus Pesticides (OP)	**EQL**										
Dichlorvos	0.5	<0.5	127%	<0.5							
Mevinphos (Phosdrin)	0.5	<0.5	91%	<0.5							
Demeton (total)	1	<1	128%	<1							
Ethoprop	0.5	<0.5	123%	<0.5							
Monocrotophos	0.5	<0.5	106%	<0.5							
Phorate	0.5	<0.5	125%	<0.5							
Dimethoate	0.5	<0.5	126%	<0.5							
Diazinon	0.5	<0.5	120%	<0.5							
Disulfoton	0.5	<0.5	129%	<0.5							
Methyl parathion	0.5	<0.5	118%	<0.5							
Ronnel	0.5	<0.5	122%	<0.5							
Fenitrothion	0.5	<0.5	128%	<0.5							
Malathion	0.5	<0.5	121%	<0.5							
Chlorpyrifos	0.5	<0.5	121%	<0.5							
Fenthion	0.5	<0.5	126%	<0.5							
Parathion	0.5	<0.5	123%	<0.5							
Stirofos	0.5	<0.5	123%	<0.5							
Prothiofos	0.5	<0.5	124%	<0.5							
Azinophos methyl	0.5	<0.5	121%	<0.5							
Coumaphos	0.5	<0.5	121%	<0.5							
TPP (Surr @ 2mg/kg)	--	*99%*	*123%*	*108%*							

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E014.2: 8-10g soil extracted with 20ml hexane/acetone (1:1). Analysis by GC/MSD.

Laboratory Identification		**86946**	**lcs**	**mb**							
Sample Identification		BH14	QC	QC							
Depth (m)		0.2-0.3	--	--							
Sampling Date recorded on COC		4/5/07	--	--							
Laboratory Extraction (Preparation) Date		10/5/07	10/5/07	10/5/07							
Laboratory Analysis Date		12/5/07	12/5/07	12/5/07							
Method : E013.2											
Polychlorinated Biphenyls (PCB)	**EQL**										
Arochlor 1016	0.5	<0.5	--	<0.5							
Arochlor 1232	0.5	<0.5	--	<0.5							
Arochlor 1242	0.5	<0.5	--	<0.5							
Arochlor 1248	0.5	<0.5	115%	<0.5							
Arochlor 1254	0.5	<0.5	--	<0.5							
Arochlor 1260	0.5	<0.5	--	<0.5							
Sum of reported PCBs	--	--	--	--							
DBC (Surr @ 0.2mg/kg)	--	*85%*	*109%*	*98%*							

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E013.2: 8-10g soil extracted with 20ml hexane/acetone (1:1). Analysis by GC/dual ECD.

Laboratory Identification		**86946**	**86953**	**crm**	**lcs**	**mb**					
Sample Identification		BH14	BH14	QC	QC	QC					
Depth (m)		0.2-0.3	9.2-9.3	--	--	--					
Sampling Date recorded on COC		4/5/07	7/5/07	--	--	--					
Laboratory Extraction (Preparation) Date		11/5/07	11/5/07	11/5/07	11/5/07	11/5/07					
Laboratory Analysis Date		11/5/07	11/5/07	11/5/07	11/5/07	11/5/07					
Method : E022.2											
Acid extractable metals (M7)	**EQL**										
Arsenic	1	2	3	99%	110%	<1					
Cadmium	0.1	0.2	<0.1	89%	102%	<0.1					
Chromium	1	4	15	102%	109%	<1					
Copper	2	15	3	91%	101%	<2					
Nickel	1	3	2	92%	102%	<1					
Lead	2	59	23	92%	100%	<2					
Zinc	5	97	5	93%	113%	<5					

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E022.2: 0.5g digested in nitric/hydrochloric acid. Analysis by ICP-MS.

Laboratory Identification		**86946**	**86953**	**crm**	**lcs**	**mb**					
Sample Identification		BH14	BH14	QC	QC	QC					
Depth (m)		0.2-0.3	9.2-9.3	--	--	--					
Sampling Date recorded on COC		4/5/07	7/5/07	--	--	--					
Laboratory Extraction (Preparation) Date		11/5/07	11/5/07	11/5/07	11/5/07	11/5/07					
Laboratory Analysis Date		14/5/07	14/5/07	11/5/07	11/5/07	11/5/07					
Method : E026.2											
Acid extractable mercury	**EQL**										
Mercury	0.05	0.08	<0.05	80%	100%	<0.05					

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E026.2: 0.5g digested with nitric/hydrochloric acid. Analysis by CV-ICP-MS or FIMS.

Laboratory Identification		**86946**	**86950**	**86953**							
Sample Identification		BH14	BH14	BH14							
Depth (m)		0.2-0.3	3.8-4.0	9.2-9.3							
Sampling Date recorded on COC		4/5/07	4/5/07	7/5/07							
Laboratory Extraction (Preparation) Date		10/5/07	10/5/07	10/5/07							
Laboratory Analysis Date		11/5/07	11/5/07	11/5/07							
Method : E005.2											
Moisture	**EQL**										
Moisture	--	17	30	24							

Results expressed in % w/w unless otherwise specified

Comments:

E005.2: Moisture by gravimetric analysis. Results are in % w/w.

AUSTRALIAN SAFER ENVIRONMENT & TECHNOLOGY PTY LTD

ABN 36 088 095 112

Our ref : ASET 11970/ 15150 / 1 - 1
Your ref: E031791
NATA Accreditation No: 14484

11 May 2007

LABMARK
P O Box 641
Hornsby NSW 1630

Attn: Ms Jakleen El Galada

Dear Jakleen,

Asbestos Identification
This report presents the results of one sample, forwarded by LABMARK, on 10 May 2007, for analysis for asbestos.

1.Introduction: One sample forwarded was examined and analysed for the presence of asbestos.

2. Methods : The sample was examined under a Stereo Microscope and selected fibres were analysed by Polarized Light Microscopy in conjunction with Dispersion Staining method **(Safer Environment Method 1.)**

3. Results : **Sample No. 1. ASET 11970 / 15150 / 1. E031791 - 86954 - BH14 - 0.0.**
Approx dimensions 14.0 cm x 3.0 cm x 2.0 cm
The sample consisted of a mixture of sandy soil, stones, plant matter and fragments of plaster.
No asbestos detected.

Analysed and reported by,

Karu Jayasundara. BSc (Hons) MAus IMM.
Mineralogist / Chartered Professional of Geology
Approved Signatory.

NATA
WORLD RECOGNISED
ACCREDITATION

Quality, Service, Support

Report Date : 9/05/2007
Report Time : 10:32:23AM

Sample **Receipt** Notice (SRN) for **E031791**

Client Details		Laboratory Reference Information	
Client Name:	HLA - Envirosciences Pty Limited	**Please have this information ready when contacting Labmark.**	
Client Phone:	02 8484 8999		
Client Fax:	02 8484 8989	**Laboratory Report:**	**E031791**
Contact Name:	Kumar Srinivasan	**Quotation Number:**	Q0271.ES
Contact Email:	ksrinivasan@hla-enviro.com.au	**Laboratory Address:**	Unit 1, 8 Leighton Pl. Asquith NSW 2077
Client Address:	PO Box 726 Pymble NSW 2073	**Phone:**	61 2 9476 6533
		Fax:	61 2 9476 8219
Project Name:	Green Square - Police	**Sample Receipt Contact:**	Jakleen El Galada
Project Number:	S4075802	**Email:**	jakleen.galada@labmark.com.au
CoC Number:	- Not provided -	**Reporting Contact:**	Jyothi Lal
Purchase Order:	14399	**Email:**	jyothi.lal@labmark.com.au
Surcharge:	No surcharge applied (results by 6:30pm on due date)		
Sample Matrix:	SOIL		
Date Sampled (earliest date):	04/05/2007	**NATA Accreditation:**	13542
Date Samples Received:	08/05/2007	**TGA GMP License:**	185-336 (Sydney)
Date Sample Receipt Notice issued:	09/05/2007	**APVMA License:**	6105 (Sydney)
Date Preliminary Report Due:	15/05/2007	**AQIS Approval:**	NO356 (Sydney)
		AQIS Entry Permit:	200521534 (Sydney)

Reporting Requirements: Electronic Data Download required: Yes

Sample Condition: COC received with samples. Report number and lab ID's defined on COC.
Samples received in good order .
Samples received with cooling media: Crushed ice .
Samples received chilled.
Security seals not required. Direct Labmark's custody taken .
Sample container & chemical preservation suitable .

Comments: Asbestos subcontracted to ASET.

Holding Times: Date received allows for sufficient time to meet Technical Holding Times.

Preservation: Chemical preservation of samples satisfactory for requested analytes.

Important Notes:

LabMark shall responsibly dispose of spent customer soil and water samples which includes the disintegration of the sample label. A sample disposal fee of $1.00 is applicable on all samples received by the laboratory regardless of whether they have undergone analytical testing. Sample disposal of environmental samples shall be 31 days (water) and 3 months (soil, HN03 preserved samples) after laboratory receipt, unless otherwise requested in writing by the client. Samples requested to be held in non-refrigerated storage shall incur $5.00/ sample/ 3 months. Additional refrigerated storage shall incur $30/ sample/ 3 months. Combination prices apply only if requested. Transfer of report ownership from LabMark to the client shall occur once full and final payment has been settled and verified. All report copies may be retracted where full payment does not occur within the agreed settlement period.

Analysis comments:

Subcontracted Analyses:

Reported by Aust. Safer Env & Tech., NATA accreditation No. 14484

Thank you for choosing Labmark to analyse your project samples.

Additional information on www.labmark.com.au

Report Date : 9/05/2007
Report Time : 10:32:23AM

Quality, Service, Support

Sample **Receipt** Notice (SRN) for **E031791**

The table below represents LabMark's understanding and interpretation of the customer supplied sample COC request. Please confirm that your COC request has been entered correctly. Due to THT and TAT requirements, testing shall commence immediately as per this table, unless the customer intervenes with a correction prior to testing.

GRID REVIEW TABLE

No.	Date	Depth	Client Sample ID	Requested Analysis																			
				BTEX by P&T	Acid extractable mercury	HOLD ON HOLD	Acid extractable metals (M7)	Moisture	Organochlorine Pesticides (OC)	Organophosphorus Pesticides (OP)	Polyaromatic Hydrocarbons (PAH)	Polychlorinated Biphenyls (PCB)	Phenols by GC/MS	PREP Not Reported	Petroleum Hydrocarbons (TPH)	Volatile TPH by P&T (vTPH)	External Not reported- Asbestos						
86946	04/05	0.2-0.3	BH14	●	●		●	●	●	●	●	●		●	●	●							
86947	04/05	0.6-0.8	BH14			●																	
86948	04/05	1.3-1.5	BH14			●																	
86949	04/05	2.2-2.5	BH14			●																	
86950	04/05	3.0-4.0	BH14					●					●	●									
86951	04/05	5.0-6.0	BH14			●																	
86952	04/05		DUP04			●																	
86953	07/05	9.2-9.3	BH14	●	●		●	●			●			●	●	●							
86954	07/05	0.0	BH14											●			●						
			Totals:	2	2	5	2	3	1	1	2	1	1	4	2	2	1						

Thank you for choosing Labmark to analyse your project samples.
Additional information on www.labmark.com.au

Quality, Service, Support

Report Date : 9/05/2007
Report Time : 10:32:23AM

Sample **Receipt** Notice (SRN) for **E031791**

No.	Date	Depth	Client Sample ID	Requested Analysis: M8 - M7-T_S																			
86946	04/05	0.2-0.3	BH14	●																			
86953	07/05	9.2-9.3	BH14	●																			
			Totals:	2																			

Thank you for choosing Labmark to analyse your project samples.
Additional information on www.labmark.com.au

CHAIN OF CUSTODY

HLA

HLA - Envirosciences Pty Limited - Sydney
Level 5, 828 Pacific Hwy
PO Box 726 Pymble NSW 2073
Gordon NSW 2072 Australia
Tel: 61 2 8484 8999
Fax: 61 2 8484 8989
E-mail: mail@syd.hla-enviro.com.au

Laboratory Details
Lab Name: Labmark
Lab Address Asquith
Contact Name:
Lab. Ref:
Tel:
Fax
Preliminary Report by:
Final Report by:
Lab Quote No: Q0241. E5

Sampled By: Kate O'Brien
HLA Project No: 84075802
Project Name: Green Square - Police
PO No. 1434494

Specifications: Please email results to Ksrinivasan@hla-enviro.com.au

	Yes (tick)
1. Urgent TAT required? (please circle: 24hr 48hr _____days)	
2. Fast TAT Guarantee Required?	
3. Is any sediment layer present in waters to be excluded from extractions?	
4. % extraneous material removed from samples to be reported as per NEPM 5.1.1?	
5. Special storage requirements? (details: _____)	
6. Shell Quality Partnership:	
7. Report Format: ☐ Fax ☐ Hardcopy ☐ Email :	

Lab. ID	Sample ID	Sampling Date	Matrix: soil	water	other	Preservation: filt'ed	acid	ice	other	Container (No. & type)	Analysis Request: BTEX + TPH	Metals*	PAH's	OCP	OPP	PCB	SVOC	VOC	TPH	Lead	TCLP Heavy Metals	TCLP PAH's	Phenols	VHC	Speciated TPH	Other: HOLD	Asbestos
86946	BH14_0.2-0.3	4.05.07	X					X		60g Jar	X	X	X	X	X	X										X	
86947	BH14_0.6-0.8	"	X					X		"																X	
86948	BH14_1.3-1.5	"	X					X		"																X	
86949	BH14_2.2-2.5	"	X					X		"													X				
86950	BH14_3.8-4.0	"	X					X		"																	
86951	BH14_5.8-6.0	"	X					X		"																X	
86952	DUP04	"	X					X		"	X	X	X														X
86953	BH14_9.2-9.3	7/5/07	X					X		"																	
86954	BH14_0.0	4/5/07	X					X		plastic bag																	X

* Metals Required (Delete elements not required): As Cd Cr Cu Ni Pb Zn Hg

Comments:

Lab Report No. EB03179 | Esky ID

Relinquished by: Alex Symatowicz Signed: Date: 8/5/07
Recieved by: Signed: Date:
Relinquished by: Signed: Date: 8/5/07
Recieved by: Signed: Date:

Field_Worksheet_FORM025_Dec04

Quality, Service, Support

Report Date : 17/05/2007
Report Time : 2:56:37PM

Sample **Receipt** Notice (SRN) for **E031972**

Client Details		Laboratory Reference Information	
Client Name:	HLA - Envirosciences Pty Limited	**Please have this information ready when contacting Labmark.**	
Client Phone:	02 8484 8999		
Client Fax:	02 8484 8989	**Laboratory Report:**	**E031972**
Contact Name:	David Dangerfield	**Quotation Number:**	- Not provided, standard prices apply
Contact Email:	ddangerfield@hla-enviro.com.au	**Laboratory Address:**	Unit 1, 8 Leighton Pl. Asquith NSW 2077
Client Address:	PO Box 726 Pymble NSW 2073	**Phone:**	61 2 9476 6533
		Fax:	61 2 9476 8219
Project Name:	S4075802	**Sample Receipt Contact:**	Jakleen El Galada
Project Number:	- Not provided -	**Email:**	jakleen.galada@labmark.com.au
CoC Number:	- Not provided -	**Reporting Contact:**	Jyothi Lal
Purchase Order:	143499	**Email:**	jyothi.lal@labmark.com.au
Surcharge:	No surcharge applied (results by 6:30pm on due date)		
Sample Matrix:	SOIL		
Date Sampled (earliest date):	14/05/2007	**NATA Accreditation:**	13542
Date Samples Received:	16/05/2007	**TGA GMP License:**	185-336 (Sydney)
Date Sample Receipt Notice issued:	17/05/2007	**APVMA License:**	6105 (Sydney)
Date Preliminary Report Due:	24/05/2007	**AQIS Approval:**	NO356 (Sydney)
		AQIS Entry Permit:	200521534 (Sydney)

Reporting Requirements: Electronic Data Download required: No

Sample Condition: COC received with samples. Report number and lab ID's defined on COC.
Samples received in good order .
Samples received with cooling media: Crushed ice .
Samples received chilled.
Security seals intact .
Sample container & chemical preservation suitable .

Comments: Asbestos subcontracted to ASET.

Holding Times: Date received allows for sufficient time to meet Technical Holding Times.

Preservation: Chemical preservation of samples satisfactory for requested analytes.

Important Notes:

LabMark shall responsibly dispose of spent customer soil and water samples which includes the disintegration of the sample label. A sample disposal fee of $1.00 is applicable on all samples received by the laboratory regardless of whether they have undergone analytical testing. Sample disposal of environmental samples shall be 31 days (water) and 3 months (soil, HN03 preserved samples) after laboratory receipt, unless otherwise requested in writing by the client. Samples requested to be held in non-refrigerated storage shall incur $5.00/ sample/ 3 months. Additional refrigerated storage shall incur $30/ sample/ 3 months. Combination prices apply only if requested. Transfer of report ownership from LabMark to the client shall occur once full and final payment has been settled and verified. All report copies may be retracted where full payment does not occur within the agreed settlement period.

Analysis comments:

Subcontracted Analyses:

Reported by Aust. Safer Env & Tech., NATA accreditation No. 14484

Thank you for choosing Labmark to analyse your project samples.

Additional information on www.labmark.com.au

Report Date : 17/05/2007
Report Time : 2:56:37PM

Quality, Service, Support

Sample **Receipt** Notice (SRN) for **E031972**

The table below represents LabMark's understanding and interpretation of the customer supplied sample COC request. Please confirm that your COC request has been entered correctly. Due to THT and TAT requirements, testing shall commence immediately as per this table, unless the customer intervenes with a correction prior to testing.

GRID REVIEW TABLE

No.	Date	Depth	Client Sample ID	Requested Analysis: BTEX by P&T	Acid extractable mercury	HOLD ON HOLD	Acid extractable metals (M7)	Moisture	Organochlorine Pesticides (OC)	Organophosphorus Pesticides (OP)	Polyaromatic Hydrocarbons (PAH)	Polychlorinated Biphenyls (PCB)	PREP Not Reported	Petroleum Hydrocarbons (TPH)	Volatile TPH by P&T (vTPH)	External Not reported- Asbestos							
88694	14/05	0.2-0.5	BH9	●	●		●	●			●		●	●	●								
88695	14/05	1.0-1.45	BH9			●																	
88696	14/05	3.0-3.5	BH9	●	●		●	●	●	●	●	●	●	●	●								
88697	14/05	3.5	BH9										●			●							
			Totals:	2	2	1	2	2	1	1	2	1	3	2	2	1							

Thank you for choosing Labmark to analyse your project samples.
Additional information on www.labmark.com.au

LabMark

Quality, Service, Support

Report Date : 17/05/2007
Report Time : 2:56:37PM

Sample **Receipt** Notice (SRN) for **E031972**

No.	Date	Depth	Client Sample ID	Requested Analysis: M8 - M7-T_S																			
88694	14/05	0.2-0.5	BH9	●																			
88696	14/05	3.0-3.5	BH9	●																			
			Totals:	2																			

Thank you for choosing Labmark to analyse your project samples.
Additional information on www.labmark.com.au

HLA

Page 1 of 1

CHAIN OF CUSTODY

HLA - Enviroscience Pty Limited - Sydney
Level 5, 828 Pacific Hwy
PO Box 726 Pymble NSW 2073
Gordon NSW 2072 Australia
Tel: 61 2 8484 8999
Fax: 61 2 8484 8989
E-mail: mail@syd.hla-enviro.com.au

Laboratory Details

Lab Name: Labmark
Lab Address
Contact Name: Asquith
Lab. Ref:
Tel:
Fax
Preliminary Report by:
Final Report by:
Lab Quote No: Q0241.ES

Sampled By: David Dangerfield
HLA Project No: S4075802
Project Name:
PO No. 143499

Specifications:

	Yes (tick)
1. Urgent TAT required? (please circle: 24hr 48hr _____days)	
2. Fast TAT Guarantee Required?	
3. Is any sediment layer present in waters to be excluded from extractions?	
4. % extraneous material removed from samples to be reported as per NEPM 5.1.1?	
5. Special storage requirements? (details: _____)	
6. Shell Quality Partnership:	
7. Report Format: ☐ Fax ☐ Hardcopy ☐ Email :	

Analysis Request

Lab. ID	Sample ID	Sampling Date	Matrix: soil	water	other	Preservation: filt'ed	acid	ice	other	Container (No. & type)	BTEX + TPH	Metals*	PAH's	OCP	OPP	PCB	SVOC	VOC	TPH	Lead	TCLP Heavy Metals	TCLP PAH's	Phenols	VHC	Speciated TPH	Other: Hold	Asbestos
88694	BH9_0.2-0.5	14/5/07	X					X		1xjar	X	X	X														X
88695	BH9_1.0-1.45	↓	X					X		↓																X	
88696	BH9_3.0-3.5		X					X			X	X	X	X	X	X											
88697	BH9_4.3	▽	X					X		▽																	X
										1xglass bag																	

* Metals Required (Delete elements not required): As Cd Cr Cu Ni Pb Zn Hg

Comments:

Lab Report No. EO31972

Esky ID

Relinquished by:	Alex Synatowicz	Signed:		Date: 15/5/07	Relinquished by:	Signed:	Date:
Recieved by:		Signed:		Date:	Recieved by: DDC	Signed:	16/5/07 Date: 4.35pm

CUSTOMER CENTRIC - ANALYTICAL CHEMISTS

Accredited for compliance with ISO/IEC 17025. The results of tests, calibrations and/or measurements included in this document are traceable to Australian/national standards. NATA is a signatory to the APLAC mutual recognition arrangement for the mutual recognition of the equivalence of testing, calibration and inspection reports.

Accreditation No. 13542

AQIS
AUSTRALIAN QUARANTINE AND INSPECTION SERVICE

SYDNEY License No. N0356.

Quarantine Approved Premises criteria 5.1 for quarantine containment level 1 (QCI) facilities. Class five criteria cover premises utilised for research, analysis and testing of biological material, soil, animal, plant and human products.

FINAL CERTIFICATE OF ANALYSIS - ENVIRONMENTAL DIVISION

Laboratory Report No:	E031972
Client Name:	HLA - Envirosciences Pty Limited
Client Reference:	S4075802
Contact Name:	David Dangerfield
Chain of Custody No:	na
Sample Matrix:	SOIL

Cover Page 1 of 4
plus Sample Results

Date Received: 16/05/2007
Date Reported: 24/05/2007

This Final Certificate of Analysis consists of sample results, DQI's, method descriptions, laboratory definitions, and internationally recognised NATA accreditation and endorsement. The DQO compliance relates specifically to QA/QC results as performed as part of the sample analysis, and may provide an indication of sample result quality. Transfer of report ownership from Labmark to the client shall only occur once full & final payment has been settled and verified. All report copies may be retracted where full payment has not occured within the agreed settlement period.

QUALITY ASSURANCE CRITERIA

Accuracy:	matrix spike:	1 in first 5-20, then 1 every 20 samples
	lcs, crm, method:	1 per analytical batch
	surrogate spike:	addition per target organic method
Precision:	laboratory duplicate:	1 in first 5-10, then 1 every 10 samples
	laboratory triplicate:	re-extracted & reported when duplicate RPD values exceed acceptance criteria
Holding Times:	soils, waters:	Refer to LabMark Preservation & THT table VOC's 14 days water / soil VAC's 7 days water or 14 days acidified VAC's 14 days soil SVOC's 7 days water, 14 days soil Pesticides 7 days water, 14 days soil Metals 6 months general elements Mercury 28 days
Confirmation:	target organic analysis:	GC/MS, or confirmatory column
Sensitivity:	EQL:	Typically 2-5 x Method Detection Limit (MDL)

QUALITY CONTROL GLOBAL ACCEPTANCE CRITERIA (GAC)

Accuracy:	spike, lcs, crm surrogate:	general analytes 70% - 130% recovery phenol analytes 50% - 130% recovery organophosphorous pesticide analytes 60% - 130% recovery phenoxy acid herbicides 50% - 130% recovery
	anion/cation bal:	+/- 10% (0-3 meq/l), +/- 5% (>3 meq/l)
Precision:	method blank:	not detected >95% of the reported EQL
	duplicate lab RPD (metals):	0-30% (>10xEQL), 0-75% (5-10xEQL) 0-100% (<5xEQL)
	duplicate lab RPD:	0-50% (>10xEQL), 0-75% (5-10xEQL) 0-100% (<5xEQL)

QUALITY CONTROL ANALYTE SPECIFIC ACCEPTANCE CRITERIA (ASAC)

Accuracy:	spike, lcs, crm surrogate:	analyte specific recovery data <3xsd of historical mean
Uncertainty:	spike, lcs:	measurement calculated from historical analyte specific control charts

RESULT ANNOTATION

Data Quality Objective	s:	matrix spike recovery	p:	pending	bcs:	batch specific lcs
Data Quality Indicator	d:	laboratory duplicate	lcs:	laboratory control sample	bmb:	batch specific mb
Estimated Quantitation Limit	t:	laboratory triplicate	crm:	certified reference material		
not applicable	r:	RPD relative % difference	mb:	method blank		

David Burns
Quality Control (Report signatory)
david.burns@labmark.com.au

Geoff Weir
Authorising Chemist (NATA signatory)
geoff.weir@labmark.com.au

Simon Mills
Authorising Chemist (NATA signatory)
simon.mills@labmark.com.au

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NEPC GUIDELINE COMPLIANCE - DQO

1. GENERAL

A. Results relate specifically to samples as received. Sample results are not corrected for matrix spike, lcs, or surrogate recovery data.

B. EQL's are matrix dependant and may be increased due to sample dilution or matrix interference.

C. Laboratory QA/QC samples are specific to this project.

D. Inter-laboratory proficiency results are available upon request. NATA accreditation details available at www.nata.asn.au.

E. VOC spikes & surrogates added to samples during extraction, SVOC spikes & surrogates added prior to extraction.

F. Recovery data outside GAC limits shall be investigated and compared to ASAC (historical mean +/- 3sd). If recovery data <20%, then the relevant results for that compound are considered not reliable.

G. Recovery data (ms, surrogate, crm, lcs) outside ASAC limits shall initiate an investigative action. Anomolous QC data is examined in conjunction with other QC samples and a final decision whether to accept or reject results is provided by the professional judgement of the senior analyst. The USEPA-CLP National Functional Guidelines are referred to for specific recommendations.

H. Extraction (preparation) date refers to the date that sample preparation was initiated. Note that certain methods not requiring sample preparation (eg. VOCs in water, etc) may report a common extraction and analysis date.

I. LabMark shall maintain an official copy of this Certificate of Analysis for all tracable reference purposes.

2. CHAIN OF CUSTODY (COC) & SAMPLE RECEIPT NOTICE (SRN) REQUIREMENTS

A. SRN issued to client upon sample receipt & login verification.

B. Preservation & sampling date details specified on COC and SRN, unless noted.

C. Sample Integrity & Validated Time of Sample Receipt (VTSR) Holding Times verified (preservation may extend holding time, refer to preservation chart).

3. NATA ACCREDITED METHODS

A. NATA accreditation held for each in-house method and sample matrix type reported, unless noted below (Refer to subcontracted test reports for NATA accreditation status).

B. NATA accredited in-house laboratory methods are referenced from NEPC, ASTM, modified USEPA / APHA documents. Corporate Accreditation No. 13542.

C. Subcontracted analyses: Refer to Sample Receipt Notice and additional DQO comments.

Reported by Aust. Safer Env & Tech., NATA accreditation No. 14484

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4. QA/QC FREQUENCY COMPLIANCE TABLE SPECIFIC TO THIS REPORT

Matrix: **SOIL**

Page:	Method:	Totals:	#d	%d-ratio	#t	#s	%s-ratio
1	BTEX by P&T	2	0	0%	0	0	0%
1	Volatile TPH by P&T (vTPH)	2	0	0%	0	0	0%
2	Petroleum Hydrocarbons (TPH)	2	0	0%	0	0	0%
3	Polyaromatic Hydrocarbons (PAH)	2	0	0%	0	0	0%
4	Organochlorine Pesticides (OC)	1	0	0%	0	0	0%
5	Organophosphorus Pesticides (OP)	1	0	0%	0	0	0%
6	Polychlorinated Biphenyls (PCB)	1	0	0%	0	0	0%
7	Acid extractable metals (M7)	2	0	0%	0	0	0%
8	Acid extractable mercury	2	0	0%	0	0	0%
9	Moisture	2	--	--	--	--	--

GLOSSARY:

#d	number of discrete duplicate extractions/analyses performed.
%d-ratio	NEPC guideline for laboratory duplicates is 1 in 10 samples (min 10%).
#t	number of triplicate extractions/analyses performed.
#s	number of spiked samples analysed.
%s-ratio	USEPA guideline for laboratory matrix spikes is 1 in 20 samples (min 5%).

5. ADDITIONAL COMMENTS SPECIFIC TO THIS REPORT

A. All tests were conducted by LabMark Environmental Sydney, NATA accreditation No. 13542, Corporate Site No. 13535, unless indicated below.
B. Asbestos analysed by ASET, ASET reference ASET12021/15201/1-1, refer to report attached.

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CUSTOMER CENTRIC - ANALYTICAL CHEMISTS

Environmental Laboratory Industry Group

Foundation Member

Laboratory Report: E031972

Cover Page 4 of 4

Laboratory QA/QC data shall relate specifically to this report, and may provide an indication of site specific sample result quality. LabMark DOES NOT report NON-RELEVANT BATCH QA/QC data. Acceptance of this self assessment certificate does not preclude any requirement for a QA/QC review by a accredited contaminated site EPA auditor, when and wherever necessary. Laboratory QA/QC self assessment references available upon request.

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LabMark PTY LTD ABN 27 079 798 397
* SYDNEY: Unit 1, 8 Leighton Place Asquith NSW 2077 * MELBOURNE: 116 Moray Street, South Melbourne VIC 3205
* Telephone: (02) 9476 6533 * Fax: (02) 9476 8219 * Telephone: (03) 9686 8344 * Fax: (03) 9686 7344

Laboratory Report No: E031972
Client Name: HLA - Envirosciences Pty Limited
Contact Name: David Dangerfield
Client Reference S4075802

Page: 1 of 9
plus cover page
Date: 24/05/07
This report supercedes reports issued on: N/A

Final
Certificate
of Analysis

Laboratory Identification		**88694**	**88696**	**lcs**	**mb**						
Sample Identification		BH9	BH9	QC	QC						
Depth (m)		0.2-0.5	3.0-3.5	--	--						
Sampling Date recorded on COC		14/5/07	14/5/07	--	--						
Laboratory Extraction (Preparation) Date		21/5/07	21/5/07	21/5/07	21/5/07						
Laboratory Analysis Date		23/5/07	23/5/07	22/5/07	22/5/07						
Method : E002.2											
BTEX by P&T	**EQL**										
Benzene	0.2	<0.2	<0.2	107%	<0.2						
Toluene	0.5	<0.5	<0.5	101%	<0.5						
Ethylbenzene	0.5	<0.5	<0.5	97%	<0.5						
meta- and para-Xylene	1	<1	<1	99%	<1						
ortho-Xylene	0.5	<0.5	<0.5	98%	<0.5						
Total Xylene	--	--	--	--	--						
CDFB (Surr @ 10mg/kg)	--	*91%*	*87%*	*112%*	*115%*						
Method : E003.2											
Volatile TPH by P&T (vTPH)	**EQL**										
C6 - C9 Fraction	10	<10	<10	106%	<10						

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E002.2: 8-10g soil extracted with 20ml methanol. Analysis by P&T/GC/PID/MSD.
E003.2: 8-10g soil extracted with 20ml methanol. Analysis by P&T/GC/FID.

Laboratory Identification		**88694**	**88696**	**lcs**	**mb**						
Sample Identification		BH9	BH9	QC	QC						
Depth (m)		0.2-0.5	3.0-3.5	--	--						
Sampling Date recorded on COC		14/5/07	14/5/07	--	--						
Laboratory Extraction (Preparation) Date		21/5/07	21/5/07	21/5/07	21/5/07						
Laboratory Analysis Date		22/5/07	22/5/07	22/5/07	22/5/07						
Method : E006.2											
Petroleum Hydrocarbons (TPH)	**EQL**										
C10 - C14 Fraction	50	<50	<50	84%	<50						
C15 - C28 Fraction	100	<100	<100	--	<100						
C29 - C36 Fraction	100	220	<100	--	<100						
Sum of TPH C10 - C36	--	220	--	--	--						

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E006.2: 8-10g soil extracted with 20ml DCM/Acetone (8:2). Analysis by GC/FID.

Laboratory Identification		**88694**	**88696**	**lcs**	**mb**						
Sample Identification		BH9	BH9	QC	QC						
Depth (m)		0.2-0.5	3.0-3.5	--	--						
Sampling Date recorded on COC		14/5/07	14/5/07	--	--						
Laboratory Extraction (Preparation) Date		21/5/07	21/5/07	21/5/07	21/5/07						
Laboratory Analysis Date		22/5/07	22/5/07	22/5/07	22/5/07						
Method : E007.2											
Polyaromatic Hydrocarbons (PAH)	**EQL**										
Naphthalene	0.5	<0.5	<0.5	101%	<0.5						
Acenaphthylene	0.5	<0.5	<0.5	100%	<0.5						
Acenaphthene	0.5	<0.5	<0.5	105%	<0.5						
Fluorene	0.5	<0.5	<0.5	103%	<0.5						
Phenanthrene	0.5	0.5	2.1	109%	<0.5						
Anthracene	0.5	<0.5	0.6	111%	<0.5						
Fluoranthene	0.5	0.8	2.6	104%	<0.5						
Pyrene	0.5	0.8	2.6	105%	<0.5						
Benz(a)anthracene	0.5	<0.5	1.3	106%	<0.5						
Chrysene	0.5	0.5	1.3	104%	<0.5						
Benzo(b)&(k)fluoranthene	1	<1	2	103%	<1						
Benzo(a) pyrene	0.5	<0.5	1.2	104%	<0.5						
Indeno(1,2,3-c,d)pyrene	0.5	<0.5	0.5	99%	<0.5						
Dibenz(a,h)anthracene	0.5	<0.5	<0.5	99%	<0.5						
Benzo(g,h,i)perylene	0.5	<0.5	0.6	94%	<0.5						
Sum of reported PAHs	--	2.6	14.8	--	--						
2-FBP (Surr @ 5mg/kg)	--	*122%*	*107%*	*90%*	*102%*						
TP-d14 (Surr @ 5mg/kg)	--	*122%*	*119%*	*98%*	*100%*						

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E007.2: 8-10g soil extracted with 20ml DCM/acetone (8:2). Analysis by GC/MS.

Laboratory Identification		**88696**	**lcs**	**mb**							
Sample Identification		BH9	QC	QC							
Depth (m)		3.0-3.5	--	--							
Sampling Date recorded on COC		14/5/07	--	--							
Laboratory Extraction (Preparation) Date		21/5/07	21/5/07	21/5/07							
Laboratory Analysis Date		23/5/07	22/5/07	22/5/07							
Method : E013.2											
Organochlorine Pesticides (OC)	**EQL**										
a-BHC	0.05	<0.05	102%	<0.05							
Hexachlorobenzene	0.05	<0.05	108%	<0.05							
b-BHC	0.05	<0.05	98%	<0.05							
g-BHC (Lindane)	0.05	<0.05	98%	<0.05							
d-BHC	0.05	<0.05	99%	<0.05							
Heptachlor	0.05	<0.05	96%	<0.05							
Aldrin	0.05	<0.05	96%	<0.05							
Heptachlor epoxide	0.05	<0.05	103%	<0.05							
trans-chlordane	0.05	<0.05	97%	<0.05							
Endosulfan I	0.05	<0.05	103%	<0.05							
cis-chlordane	0.05	<0.05	103%	<0.05							
Dieldrin	0.05	<0.05	96%	<0.05							
4,4-DDE	0.05	<0.05	95%	<0.05							
Endrin	0.05	<0.05	82%	<0.05							
Endosulfan II	0.05	<0.05	96%	<0.05							
4,4-DDD	0.05	<0.05	98%	<0.05							
Endosulfan sulphate	0.05	<0.05	98%	<0.05							
4,4-DDT	0.2	<0.2	90%	<0.2							
Methoxychlor	0.2	<0.2	84%	<0.2							
DBC (Surr @ 0.2mg/kg)	--	*80%*	*103%*	*102%*							

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E013.2: 8-10g soil extracted with 20ml hexane/acetone (1:1). Analysis by GC/dual ECD.

Laboratory Identification		**88696**	**lcs**	**mb**							
Sample Identification		BH9	QC	QC							
Depth (m)		3.0-3.5	--	--							
Sampling Date recorded on COC		14/5/07	--	--							
Laboratory Extraction (Preparation) Date		21/5/07	21/5/07	21/5/07							
Laboratory Analysis Date		22/5/07	22/5/07	22/5/07							
Method : E014.2											
Organophosphorus Pesticides (OP)	**EQL**										
Dichlorvos	0.5	<0.5	110%	<0.5							
Mevinphos (Phosdrin)	0.5	<0.5	91%	<0.5							
Demeton (total)	1	<1	122%	<1							
Ethoprop	0.5	<0.5	122%	<0.5							
Monocrotophos	0.5	<0.5	86%	<0.5							
Phorate	0.5	<0.5	116%	<0.5							
Dimethoate	0.5	<0.5	120%	<0.5							
Diazinon	0.5	<0.5	111%	<0.5							
Disulfoton	0.5	<0.5	123%	<0.5							
Methyl parathion	0.5	<0.5	113%	<0.5							
Ronnel	0.5	<0.5	111%	<0.5							
Fenitrothion	0.5	<0.5	116%	<0.5							
Malathion	0.5	<0.5	125%	<0.5							
Chlorpyrifos	0.5	<0.5	114%	<0.5							
Fenthion	0.5	<0.5	129%	<0.5							
Parathion	0.5	<0.5	125%	<0.5							
Stirofos	0.5	<0.5	114%	<0.5							
Prothiofos	0.5	<0.5	123%	<0.5							
Azinophos methyl	0.5	<0.5	120%	<0.5							
Coumaphos	0.5	<0.5	128%	<0.5							
TPP (Surr @ 2mg/kg)	--	*116%*	*113%*	*116%*							

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E014.2: 8-10g soil extracted with 20ml hexane/acetone (1:1). Analysis by GC/MSD.

Laboratory Identification		**88696**	**lcs**	**mb**							
Sample Identification		BH9	QC	QC							
Depth (m)		3.0-3.5	--	--							
Sampling Date recorded on COC		14/5/07	--	--							
Laboratory Extraction (Preparation) Date		21/5/07	21/5/07	21/5/07							
Laboratory Analysis Date		23/5/07	22/5/07	22/5/07							
Method : E013.2											
Polychlorinated Biphenyls (PCB)	**EQL**										
Arochlor 1016	0.5	<0.5	--	<0.5							
Arochlor 1232	0.5	<0.5	--	<0.5							
Arochlor 1242	0.5	<0.5	--	<0.5							
Arochlor 1248	0.5	<0.5	124%	<0.5							
Arochlor 1254	0.5	<0.5	--	<0.5							
Arochlor 1260	0.5	<0.5	--	<0.5							
Sum of reported PCBs	--	--	--	--							
DBC (Surr @ 0.2mg/kg)	--	*80%*	*102%*	*102%*							

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E013.2: 8-10g soil extracted with 20ml hexane/acetone (1:1). Analysis by GC/dual ECD.

Laboratory Identification		**88694**	**88696**	**crm**	**lcs**	**mb**					
Sample Identification		BH9	BH9	QC	QC	QC					
Depth (m)		0.2-0.5	3.0-3.5	--	--	--					
Sampling Date recorded on COC		14/5/07	14/5/07	--	--	--					
Laboratory Extraction (Preparation) Date		22/5/07	22/5/07	22/5/07	22/5/07	22/5/07					
Laboratory Analysis Date		23/5/07	23/5/07	22/5/07	23/5/07	23/5/07					
Method : E022.2											
Acid extractable metals (M7)	**EQL**										
Arsenic	1	5	5	98%	90%	<1					
Cadmium	0.1	0.3	7.8	89%	89%	<0.1					
Chromium	1	12	14	105%	89%	<1					
Copper	2	120	160	94%	86%	<2					
Nickel	1	13	20	95%	82%	<1					
Lead	2	71	1770	100%	91%	<2					
Zinc	5	370	9980	94%	84%	<5					

Results expressed in mg/kg dry weight unless otherwise specified

Comments: -

E022.2: 0.5g digested in nitric/hydrochloric acid. Analysis by ICP-MS.

Laboratory Identification		**88694**	**88696**	**crm**	**lcs**	**mb**					
Sample Identification		BH9	BH9	QC	QC	QC					
Depth (m)		0.2-0.5	3.0-3.5	--	--	--					
Sampling Date recorded on COC		14/5/07	14/5/07	--	--	--					
Laboratory Extraction (Preparation) Date		22/5/07	22/5/07	22/5/07	22/5/07	22/5/07					
Laboratory Analysis Date		23/5/07	23/5/07	22/5/07	22/5/07	22/5/07					
Method : E026.2											
Acid extractable mercury	**EQL**										
Mercury	0.05	0.11	0.94	96%	98%	<0.05					

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E026.2: 0.5g digested with nitric/hydrochloric acid. Analysis by CV-ICP-MS or FIMS.

Laboratory Identification		**88694**	**88696**								
Sample Identification		BH9	BH9								
Depth (m)		0.2-0.5	3.0-3.5								
Sampling Date recorded on COC		14/5/07	14/5/07								
Laboratory Extraction (Preparation) Date		21/5/07	21/5/07								
Laboratory Analysis Date		22/5/07	22/5/07								
Method : E005.2											
Moisture	**EQL**										
Moisture	--	11	28								

Results expressed in % w/w unless otherwise specified

Comments:

E005.2: Moisture by gravimetric analysis. Results are in % w/w.

AUSTRALIAN SAFER ENVIRONMENT & TECHNOLOGY PTY LTD
ABN 36 088 095 112

Our ref : ASET 12021/ 15201 / 1 - 1
Your ref: E031972
NATA Accreditation No: 14484

18 May 2007

LABMARK
P O Box 641
Hornsby NSW 1630

Attn: Ms Jakleen El Galada

Dear Jakleen,

Asbestos Identification
This report presents the results of one sample, forwarded by LABMARK, on 17 May 2007, for analysis for asbestos.

1.Introduction: One sample forwarded was examined and analysed for the presence of asbestos.

2. Methods : The sample was examined under a Stereo Microscope and selected fibres were analysed by Polarized Light Microscopy in conjunction with Dispersion Staining method **(Safer Environment Method 1.)**

3. Results : **Sample No. 1. ASET 12021 / 15201 / 1. E031972 - 88697 - BH9 - 3.5.**
Approx dimensions 14.0 cm x 3.0 cm x 2.0 cm
The sample consisted of a mixture of clayish soil, stones, plant matter, fragments of plaster, fibres* and brick.
Chrysotile* asbestos detected.

Analysed and reported by,

Karu Jayasundara. BSc (Hons) MAus IMM.
Mineralogist / Chartered Professional of Geology
Approved Signatory.

NATA
WORLD RECOGNISED
ACCREDITATION

Quality, Service, Support

Report Date : 17/05/2007
Report Time : 2:56:37PM

Sample **Receipt** Notice (SRN) for **E031972**

Client Details		Laboratory Reference Information	
Client Name:	HLA - Envirosciences Pty Limited	**Please have this information ready when contacting Labmark.**	
Client Phone:	02 8484 8999		
Client Fax:	02 8484 8989	**Laboratory Report:**	**E031972**
Contact Name:	David Dangerfield	**Quotation Number:**	- Not provided, standard prices apply
Contact Email:	ddangerfield@hla-enviro.com.au	**Laboratory Address:**	Unit 1, 8 Leighton Pl. Asquith NSW 2077
Client Address:	PO Box 726 Pymble NSW 2073	**Phone:**	61 2 9476 6533
		Fax:	61 2 9476 8219
Project Name:	S4075802	**Sample Receipt Contact:**	Jakleen El Galada
Project Number:	- Not provided -	**Email:**	jakleen.galada@labmark.com.au
CoC Number:	- Not provided -	**Reporting Contact:**	Jyothi Lal
Purchase Order:	143499	**Email:**	jyothi.lal@labmark.com.au
Surcharge:	No surcharge applied (results by 6:30pm on due date)		
Sample Matrix:	SOIL		
Date Sampled (earliest date):	14/05/2007	**NATA Accreditation:**	13542
Date Samples Received:	16/05/2007	**TGA GMP License:**	185-336 (Sydney)
Date Sample Receipt Notice issued:	17/05/2007	**APVMA License:**	6105 (Sydney)
Date Preliminary Report Due:	24/05/2007	**AQIS Approval:**	NO356 (Sydney)
		AQIS Entry Permit:	200521534 (Sydney)

Reporting Requirements: Electronic Data Download required: No

Sample Condition: COC received with samples. Report number and lab ID's defined on COC.
Samples received in good order .
Samples received with cooling media: Crushed ice .
Samples received chilled.
Security seals intact .
Sample container & chemical preservation suitable .

Comments: Asbestos subcontracted to ASET.

Holding Times: Date received allows for sufficient time to meet Technical Holding Times.

Preservation: Chemical preservation of samples satisfactory for requested analytes.

Important Notes:

LabMark shall responsibly dispose of spent customer soil and water samples which includes the disintegration of the sample label. A sample disposal fee of $1.00 is applicable on all samples received by the laboratory regardless of whether they have undergone analytical testing. Sample disposal of environmental samples shall be 31 days (water) and 3 months (soil, HN03 preserved samples) after laboratory receipt, unless otherwise requested in writing by the client. Samples requested to be held in non-refrigerated storage shall incur $5.00/ sample/ 3 months. Additional refrigerated storage shall incur $30/ sample/ 3 months. Combination prices apply only if requested. Transfer of report ownership from LabMark to the client shall occur once full and final payment has been settled and verified. All report copies may be retracted where full payment does not occur within the agreed settlement period.

Analysis comments:

Subcontracted Analyses:

Reported by Aust. Safer Env & Tech., NATA accreditation No. 14484

Thank you for choosing Labmark to analyse your project samples.

Additional information on www.labmark.com.au

Report Date : 17/05/2007
Report Time : 2:56:37PM

Quality, Service, Support

Sample **Receipt** Notice (SRN) for **E031972**

The table below represents LabMark's understanding and interpretation of the customer supplied sample COC request. Please confirm that your COC request has been entered correctly. Due to THT and TAT requirements, testing shall commence immediately as per this table, unless the customer intervenes with a correction prior to testing.

GRID REVIEW TABLE

No.	Date	Depth	Client Sample ID	Requested Analysis: BTEX by P&T	Acid extractable mercury	HOLD ON HOLD	Acid extractable metals (M7)	Moisture	Organochlorine Pesticides (OC)	Organophosphorus Pesticides (OP)	Polyaromatic Hydrocarbons (PAH)	Polychlorinated Biphenyls (PCB)	PREP Not Reported	Petroleum Hydrocarbons (TPH)	Volatile TPH by P&T (vTPH)	External Not reported- Asbestos							
88694	14/05	0.2-0.5	BH9	●	●		●	●			●		●	●	●								
88695	14/05	1.0-1.45	BH9			●																	
88696	14/05	3.0-3.5	BH9	●	●		●	●	●	●	●	●	●	●	●								
88697	14/05	3.5	BH9										●			●							
			Totals:	2	2	1	2	2	1	1	2	1	3	2	2	1							

Thank you for choosing Labmark to analyse your project samples.
Additional information on www.labmark.com.au

LabMark

Quality, Service, Support

Report Date : 17/05/2007
Report Time : 2:56:37PM

Sample **Receipt** Notice (SRN) for **E031972**

No.	Date	Depth	Client Sample ID	Requested Analysis: M8 - M7-T_S																			
88694	14/05	0.2-0.5	BH9	●																			
88696	14/05	3.0-3.5	BH9	●																			
			Totals:	2																			

Thank you for choosing Labmark to analyse your project samples.
Additional information on www.labmark.com.au

HLA

Page 1 of 1

CHAIN OF CUSTODY

HLA - Enviroscience Pty Limited - Sydney
Level 5, 828 Pacific Hwy
PO Box 726 Pymble NSW 2073
Gordon NSW 2072 Australia
Tel: 61 2 8484 8999
Fax: 61 2 8484 8989
E-mail: mail@syd.hla-enviro.com.au

Laboratory Details

Lab Name: Labmark
Lab Address
Contact Name: Asquith
Lab. Ref:
Tel:
Fax
Preliminary Report by:
Final Report by:
Lab Quote No: Q0241.ES

Sampled By: David Dangerfield
HLA Project No: S4075802
Project Name:
PO No. 143499

Specifications:

	Yes (tick)
1. Urgent TAT required? (please circle: 24hr 48hr _____days)	
2. Fast TAT Guarantee Required?	
3. Is any sediment layer present in waters to be excluded from extractions?	
4. % extraneous material removed from samples to be reported as per NEPM 5.1.1?	
5. Special storage requirements? (details: _____)	
6. Shell Quality Partnership:	
7. Report Format: ☐ Fax ☐ Hardcopy ☐ Email :	

Analysis Request

Lab. ID	Sample ID	Sampling Date	Matrix: soil	water	other	Preservation: filt'ed	acid	ice	other	Container (No. & type)	BTEX + TPH	Metals*	PAH's	OCP	OPP	PCB	SVOC	VOC	TPH	Lead	TCLP Heavy Metals	TCLP PAH's	Phenols	VHC	Speciated TPH	Other: Hold	Asbestos
88694	BH9_0.2-0.5	14/5/07	X					X		1xjar	X	X	X														X
88695	BH9_1.0-1.45	↓	X					X		↓																X	
88696	BH9_3.0-3.5		X					X			X	X	X	X	X	X											
88697	BH9_4.3	▽	X					X		▽																	X
										1xglass bag																	

* Metals Required (Delete elements not required): As Cd Cr Cu Ni Pb Zn Hg

Comments:

Lab Report No. EO31972

Esky ID

Relinquished by:	Alex Synatowicz	Signed:		Date: 15/5/07	Relinquished by:	Signed:	Date:
Recieved by:		Signed:		Date:	Recieved by: DDC	Signed:	16/5/07 Date: 4.35pm

Quality, Service, Support

Report Date : 28/05/2007
Report Time : 1:22:01PM

Sample **Receipt** Notice (SRN) for **E032157**

Client Details		Laboratory Reference Information	
Client Name:	HLA - Envirosciences Pty Limited	**Please have this information ready when contacting Labmark.**	
Client Phone:	02 8484 8999		
Client Fax:	02 8484 8989	**Laboratory Report:**	**E032157**
Contact Name:	Kumar Srinivasan	**Quotation Number:**	Q0241.ES
Contact Email:	ksrinivasan@hla-enviro.com.au	**Laboratory Address:**	Unit 1, 8 Leighton Pl. Asquith NSW 2077
Client Address:	PO Box 726 Pymble NSW 2073	**Phone:**	61 2 9476 6533
		Fax:	61 2 9476 8219
Project Name:	Police Site	**Sample Receipt Contact:**	Jakleen El Galada
Project Number:	S4075802	**Email:**	jakleen.galada@labmark.com.au
CoC Number:	S09604	**Reporting Contact:**	Jyothi Lal
Purchase Order:	- Not provided -	**Email:**	jyothi.lal@labmark.com.au
Surcharge:	No surcharge applied (results by 6:30pm on due date)		
Sample Matrix:	SOIL & WATER		
Date Sampled (earliest date):	24/05/2007	**NATA Accreditation:**	13542
Date Samples Received:	25/05/2007	**TGA GMP License:**	185-336 (Sydney)
Date Sample Receipt Notice issued:	28/05/2007	**APVMA License:**	6105 (Sydney)
Date Preliminary Report Due:	04/06/2007	**AQIS Approval:**	NO356 (Sydney)
		AQIS Entry Permit:	200521534 (Sydney)

Reporting Requirements: Electronic Data Download required: No

Sample Condition: COC received with samples. Report number and lab ID's defined on COC.
Samples received in good order .
Samples received with cooling media: Crushed ice .
Samples received chilled.
Security seals not required. Direct Labmark's custody taken .
Sample container & chemical preservation suitable .

Comments: Asbdstos subcontracted to ASET.

Holding Times: Date received allows for sufficient time to meet Technical Holding Times.

Preservation: Chemical preservation of samples satisfactory for requested analytes.

Important Notes:

LabMark shall responsibly dispose of spent customer soil and water samples which includes the disintegration of the sample label. A sample disposal fee of $1.00 is applicable on all samples received by the laboratory regardless of whether they have undergone analytical testing. Sample disposal of environmental samples shall be 31 days (water) and 3 months (soil, HN03 preserved samples) after laboratory receipt, unless otherwise requested in writing by the client. Samples requested to be held in non-refrigerated storage shall incur $5.00/ sample/ 3 months. Additional refrigerated storage shall incur $30/ sample/ 3 months. Combination prices apply only if requested. Transfer of report ownership from LabMark to the client shall occur once full and final payment has been settled and verified. All report copies may be retracted where full payment does not occur within the agreed settlement period.

Analysis comments:

Subcontracted Analyses:

Reported by Aust. Safer Env & Tech., NATA accreditation No. 14484

Thank you for choosing Labmark to analyse your project samples.

Additional information on www.labmark.com.au

Report Date : 28/05/2007
Report Time : 1:22:01PM

Quality, Service, Support

Sample **Receipt** Notice (SRN) for **E032157**

The table below represents LabMark's understanding and interpretation of the customer supplied sample COC request. Please confirm that your COC request has been entered correctly. Due to THT and TAT requirements, testing shall commence immediately as per this table, unless the customer intervenes with a correction prior to testing.

GRID REVIEW TABLE

No.	Date	Depth	Client Sample ID	Requested Analysis: BTEX by P&T	BTEX by P&T	Acid extractable mercury	HOLD ON HOLD	Acid extractable metals (M7)	Moisture	Organochlorine Pesticides (OC)	Organophosphorus Pesticides (OP)	Polyaromatic Hydrocarbons (PAH)	Polyaromatic Hydrocarbons (PAH)	Polychlorinated Biphenyls (PCB)	PREP Not Reported	PREP Not Reported	Semivolatile Organic Compounds (SVOC)	Petroleum Hydrocarbons (TPH)	Petroleum Hydrocarbons (TPH)	Volatile TPH by P&T (vTPH)	Volatile TPH by P&T (vTPH)	External Not reported- Asbestos	
90703	24/05	0.2-0.3	BH4												●							●	
90704	24/05	0.4-0.5	BH4				●																
90705	24/05	1.0-1.5	BH4				●																
90706	24/05	3.0-3.5	BH4				●																
90707	24/05	6.0-6.5	BH4	●		●		●	●	●	●	●		●	●			●		●			
90708	24/05	7.5-8.0	BH4				●																
90709	24/05	8.5-8.8	BH4						●						●		●						
90710	25/05	9.7-10.0	BH4				●																
90711	24/05		DUP05	●		●		●	●			●			●			●		●			
90712	25/05		R1		●								●			●			●		●		
			Totals:	2	1	2	5	2	3	1	1	2	1	1	4	1	1	2	1	2	1	1	

Thank you for choosing Labmark to analyse your project samples.
Additional information on www.labmark.com.au

Quality, Service, Support

Report Date : 28/05/2007
Report Time : 1:22:01PM

Sample **Receipt** Notice (SRN) for **E032157**

No.	Date	Depth	Client Sample ID	Requested Analysis: M8 - M7-T_S																			
90707	24/05	6.0-6.5	BH4	●																			
90711	24/05		DUP05	●																			
			Totals:	2																			

Thank you for choosing Labmark to analyse your project samples.
Additional information on www.labmark.com.au

Form QS0073, Rev.10: Date Issued 11/10/2006

S09604 CHAIN OF CUSTODY

Combination Prices only apply if Combo request is circled on COC.

PAGE 1 OF 1

PO 143499

Safety Precaution: laboratory sample bottles may contain preservation acid / chemicals refer to SAFETY label on bottle.

LABMARK

NATA 13542, AQIS N0356

Dispatch samples to:
Unit1/ 8 Leighton Place
Asquith NSW 2077
or
116 Moray Street
South Melbourne VIC 3205

Tel (SYD): 612-9476-6533
Fax (SYD): 612-9476-8219
Tel (MEL): 613-9686-8344
Fax (MEL): 613-9686-7344
(DB): 0409449684, (PW): 0439390209
ros.schacht@labmark.com.au
paul.woodward@labmark.com.au

Client Details

Company & Address: HLA Sydney
Project Manager: K. Srinivasan
Project Name: Police Site
Project Type (eg. Service Station):
Sampler: D Dungerfield
Project No: S4075802
Tel:
Fx:
Date Required: 1 June 07
Lab. Quote No: EQ0241.ES

Global Specifications I require (default is Not required if Not ticked):

YES (tick)

1. Urgent TAT required? (please circle: **1** day **2** days **3** days ..... days)
2. Do you require sediment present in waters to be included in organic/ inorganic extractions?
3. Do you require additional QA/QC reported where sample batches submitted are < 10 samples? (Fee Applies)
4. Do you require additional EQA or batch specific LCS/ MB results every 20 samples? (Fee Applies)
5. **Do you require DIFFERENT standard EQL's from those stated in the current LabMark price catalogue?**
6. Do you wish chromatograms to be supplied? (Additional fee applies).
7. Electronic data transfer (circle: fax .xls .csv .pdf). Please specify.

Note1: Additional water sample must be submitted for lab. duplicate & spike analysis.
Note2: Contact lab if consolidating multiple analyses into a single sample container.

Analysis Request

Lab. Number	Sample ID	Sample Depth	Sampling Date	Matrix: soil	water	air	paint, filters	other	Container Type (Nat. = unpreserved, G=glass, P=plastic): Soil (G) Nat. Orange	0.5-1L (G) Nat. Orange	43ml VOA (G) Nat. Orange	43ml VOA (G) HCl Maroon	0.1-1L (P) H2SO4 Purple	0.1-1L (G) H2SO4 Purple	0.1-1L (P) Nat. Green	0.1-0.2L (P) HNO3 Red Filtered YES/ NO	0.1-1L (P) NaOH, CdNO3 Blue	Other
90703	BH4_0.2-0.3		24/05/07	✓					✓									
90704	BH4_0.4-0.5			✓					✓									
90705	BH4_1.0-1.5			✓					✓									
90706	BH4_30-35			✓					✓									
90707	BH4_60-65			✓					✓									
90708	BH4_7.5-8.0			✓					✓									
90709	BH4_8.5-8.8			✓					✓									
90710	BH4_9.7-10.0		25/05/07	✓					✓									
90711	DUP05		24/05/07	✓					✓									
90712	R1		25/05/07			✓												
Totals																		

Volatile Tests: BTEX+vTPH (C6-9) PT-GC/FID/PID/orMS (125g, 2x43 ml); VHC PT-GC/MS (125g, 2x43ml); THM PT-GC/MS (125g, 2x43ml); MTBE PT-GC/MS (125g, 2x43ml); VAC PT-GC/MS; VOC PT-GC/MS

Semi- & Non-Volatile Tests (125g (max. 4 tests)): TPH (C10-36) GC/FID (500 ml); PAH's GC/MS (500 ml); Phenols GC/MS (500 ml); Aromatic/ Aliphatic TPH GC/FID (500 ml); (circle) OC, OP, PCB GC/ECD/FPD (500 ml); SVOC GC/MS (1 L); Phenoxy Acid Herbicides GC/MS (500 ml); Explosives HPLC (125 ml)

Leach (250g): (circle) Metals* (dissolved / total); TCLP (specify test - other); ZHE TCLP (specify test - other)

Nutrient Tests (125g (max. 4 tests); 0.1 - 1L (chemical groups)): (circle) pH, EC; (circle) NH_3, TKN, N_{org}, TN; (circle) NO_x, NO_3^-, NO_2^-; (circle) TP, ortho-P, TKP; (circle) soluble/total; (circle) Cl^-, F^-, SO_4^{2-} (circle); Total Alk, Speciated Alk; (circle) Free CN, WAD, Total CN; Total Phenolics; Cations (circle) sol/total -Ca, Mg, Na, K

Other (eg. TCLP tests here): Asbestos ✓; Hold ✓

*Metals (circle) As, Cd, Cr, Cu, Ni, Pb, Zn, Hg, Cr^{6+}, Cr^{3+}, Fe^{2+}, Fe^{3+}, Be, B, Al, V, Mn, Fe, Co, Se, Sr, Sn, Mo, Ag, Ba, Tl, Bi, Sb

Comments (Highly contaminated samples):

Lab Report No. EO32157

Security Seal Applied: YES/NO
Security Seal Serial #:

Relinquished by (print): D. Dungerfield — Signed: D Dungerfield — Date: 25/05/07 — Received By: — Date: — Time:

Relinquished by (print): — Signed: — Date: — Received By: — Date: — Time:

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CUSTOMER CENTRIC - ANALYTICAL CHEMISTS

Accredited for compliance with ISO/IEC 17025. The results of tests, calibrations and/or measurements included in this document are traceable to Australian/national standards. NATA is a signatory to the APLAC mutual recognition arrangement for the mutual recognition of the equivalence of testing, calibration and inspection reports.

AQIS
AUSTRALIAN QUARANTINE AND INSPECTION SERVICE
SYDNEY License No. N0356.

Quarantine Approved Premises criteria 5.1 for quarantine containment level 1 (QCI) facilities. Class five criteria cover premises utilised for research, analysis and testing of biological material, soil, animal, plant and human products.

FINAL CERTIFICATE OF ANALYSIS - ENVIRONMENTAL DIVISION

Laboratory Report No:	E032157	Cover Page 1 of 4 plus Sample Results
Client Name:	HLA - Envirosciences Pty Limited	
Client Reference:	Police Site	
Contact Name:	Kumar Srinivasan	
Chain of Custody No:	S09604	Date Received: 25/05/2007
Sample Matrix:	SOIL & WATER	Date Reported: 04/06/2007

This Final Certificate of Analysis consists of sample results, DQI's, method descriptions, laboratory definitions, and internationally recognised NATA accreditation and endorsement. The DQO compliance relates specifically to QA/QC results as performed as part of the sample analysis, and may provide an indication of sample result quality. Transfer of report ownership from Labmark to the client shall only occur once full & final payment has been settled and verified. All report copies may be retracted where full payment has not occured within the agreed settlement period.

QUALITY ASSURANCE CRITERIA

Accuracy:	matrix spike:	1 in first 5-20, then 1 every 20 samples
	lcs, crm, method:	1 per analytical batch
	surrogate spike:	addition per target organic method
Precision:	laboratory duplicate:	1 in first 5-10, then 1 every 10 samples
	laboratory triplicate:	re-extracted & reported when duplicate RPD values exceed acceptance criteria
Holding Times:	soils, waters:	Refer to LabMark Preservation & THT table VOC's 14 days water / soil VAC's 7 days water or 14 days acidified VAC's 14 days soil SVOC's 7 days water, 14 days soil Pesticides 7 days water, 14 days soil Metals 6 months general elements Mercury 28 days
Confirmation:	target organic analysis:	GC/MS, or confirmatory column
Sensitivity:	EQL:	Typically 2-5 x Method Detection Limit (MDL)

QUALITY CONTROL GLOBAL ACCEPTANCE CRITERIA (GAC)

Accuracy:	spike, lcs, crm surrogate:	general analytes 70% - 130% recovery phenol analytes 50% - 130% recovery organophosphorous pesticide analytes 60% - 130% recovery phenoxy acid herbicides 50% - 130% recovery
	anion/cation bal:	+/- 10% (0-3 meq/l), +/- 5% (>3 meq/l)
Precision:	method blank:	not detected >95% of the reported EQL
	duplicate lab RPD (metals):	0-30% (>10xEQL), 0-75% (5-10xEQL) 0-100% (<5xEQL)
	duplicate lab RPD:	0-50% (>10xEQL), 0-75% (5-10xEQL) 0-100% (<5xEQL)

QUALITY CONTROL ANALYTE SPECIFIC ACCEPTANCE CRITERIA (ASAC)

Accuracy:	spike, lcs, crm surrogate:	analyte specific recovery data <3xsd of historical mean
Uncertainty:	spike, lcs:	measurement calculated from historical analyte specific control charts

RESULT ANNOTATION

Data Quality Objective	s:	matrix spike recovery	p:	pending	bcs:	batch specific lcs
Data Quality Indicator	d:	laboratory duplicate	lcs:	laboratory control sample	bmb:	batch specific mb
Estimated Quantitation Limit	t:	laboratory triplicate	crm:	certified reference material		
not applicable	r:	RPD relative % difference	mb:	method blank		

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Quality Control (Report signatory)
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NEPC GUIDELINE COMPLIANCE - DQO

1. GENERAL

A. Results relate specifically to samples as received. Sample results are not corrected for matrix spike, lcs, or surrogate recovery data.

B. EQL's are matrix dependant and may be increased due to sample dilution or matrix interference.

C. Laboratory QA/QC samples are specific to this project.

D. Inter-laboratory proficiency results are available upon request. NATA accreditation details available at www.nata.asn.au.

E. VOC spikes & surrogates added to samples during extraction, SVOC spikes & surrogates added prior to extraction.

F. Recovery data outside GAC limits shall be investigated and compared to ASAC (historical mean +/- 3sd). If recovery data <20%, then the relevant results for that compound are considered not reliable.

G. Recovery data (ms, surrogate, crm, lcs) outside ASAC limits shall initiate an investigative action. Anomolous QC data is examined in conjunction with other QC samples and a final decision whether to accept or reject results is provided by the professional judgement of the senior analyst. The USEPA-CLP National Functional Guidelines are referred to for specific recommendations.

H. Extraction (preparation) date refers to the date that sample preparation was initiated. Note that certain methods not requiring sample preparation (eg. VOCs in water, etc) may report a common extraction and analysis date.

I. LabMark shall maintain an official copy of this Certificate of Analysis for all tracable reference purposes.

2. CHAIN OF CUSTODY (COC) & SAMPLE RECEIPT NOTICE (SRN) REQUIREMENTS

A. SRN issued to client upon sample receipt & login verification.

B. Preservation & sampling date details specified on COC and SRN, unless noted.

C. Sample Integrity & Validated Time of Sample Receipt (VTSR) Holding Times verified (preservation may extend holding time, refer to preservation chart).

3. NATA ACCREDITED METHODS

A. NATA accreditation held for each in-house method and sample matrix type reported, unless noted below (Refer to subcontracted test reports for NATA accreditation status).

B. NATA accredited in-house laboratory methods are referenced from NEPC, ASTM, modified USEPA / APHA documents. Corporate Accreditation No. 13542.

C. Subcontracted analyses: Refer to Sample Receipt Notice and additional DQO comments.

Reported by Aust. Safer Env & Tech., NATA accreditation No. 14484

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4. QA/QC FREQUENCY COMPLIANCE TABLE SPECIFIC TO THIS REPORT

Matrix: **SOIL**

Page:	Method:	Totals:	#d	%d-ratio	#t	#s	%s-ratio
1	BTEX by P&T	2	0	0%	0	0	0%
1	Volatile TPH by P&T (vTPH)	2	0	0%	0	0	0%
2	Petroleum Hydrocarbons (TPH)	2	0	0%	0	0	0%
5	Polyaromatic Hydrocarbons (PAH)	2	0	0%	0	0	0%
7	Organochlorine Pesticides (OC)	1	0	0%	0	0	0%
8	Organophosphorus Pesticides (OP)	1	0	0%	0	0	0%
9	Polychlorinated Biphenyls (PCB)	1	0	0%	0	0	0%
10	Acid extractable metals (M7)	2	0	0%	0	0	0%
11	Acid extractable mercury	2	0	0%	0	0	0%
12	Semivolatile Organic Compounds (SVOC)	1	0	0%	0	0	0%
18	Moisture	3	--	--	--	--	--

Matrix: **WATER**

Page:	Method:	Totals:	#d	%d-ratio	#t	#s	%s-ratio
3	Volatile TPH by P&T (vTPH)	1	0	0%	0	0	0%
3	BTEX by P&T	1	0	0%	0	0	0%
4	Petroleum Hydrocarbons (TPH)	1	0	0%	0	0	0%
6	Polyaromatic Hydrocarbons (PAH)	1	0	0%	0	0	0%

GLOSSARY:

#d	number of discrete duplicate extractions/analyses performed.
%d-ratio	NEPC guideline for laboratory duplicates is 1 in 10 samples (min 10%).
#t	number of triplicate extractions/analyses performed.
#s	number of spiked samples analysed.
%s-ratio	USEPA guideline for laboratory matrix spikes is 1 in 20 samples (min 5%).

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CUSTOMER CENTRIC - ANALYTICAL CHEMISTS

Environmental Laboratory Industry Group
Foundation Member

Laboratory Report: E032157

5. ADDITIONAL COMMENTS SPECIFIC TO THIS REPORT

A. All tests were conducted by LabMark Environmental Sydney, NATA accreditation No. 13542, Corporate Site No. 13535, unless indicated below.
B. SVOC (soil), lcs recovery range 50%-129%,.
C. Refer to LabMark historical control chart recovery range data. QA/QC (SVOC) results reported within 3sd of the historical analyte specific mean results, and therefore considered acceptable for laboratory release.
D. Asbestos analysed by ASET, ASET reference ASET12108/15288/1-1, refer to report attached.

Laboratory QA/QC data shall relate specifically to this report, and may provide an indication of site specific sample result quality. LabMark DOES NOT report NON-RELEVANT BATCH QA/QC data. Acceptance of this self assessment certificate does not preclude any requirement for a QA/QC review by a accredited contaminated site EPA auditor, when and wherever necessary. Laboratory QA/QC self assessment references available upon request.

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LabMark PTY LTD ABN 27 079 798 397
* SYDNEY: Unit 1, 8 Leighton Place Asquith NSW 2077 * MELBOURNE: 116 Moray Street, South Melbourne VIC 3205
* Telephone: (02) 9476 6533 * Fax: (02) 9476 8219 * Telephone: (03) 9686 8344 * Fax: (03) 9686 7344

HISTORICAL CONTROL CHART DATA - QA/QC

Sydney

Analyte mean and standard deviation

SVOC_S

For the period: 01/01/06 12:00:00 AM to 30/12/06 11:59:59 PM

SPIKES

Analyte Name	n	Mean	1 SD	Range	2 SD	Range	3 SD	Range
1,2,4,5-tetrachlorobenzene	34	91	12	79 to 103	24	67 to 115	36	55 to 127
1,2,4-trichlorobenzene	34	90	12	78 to 102	24	66 to 114	36	54 to 126
1,2-dichlorobenzene	34	91	11	80 to 102	22	69 to 113	33	58 to 124
1,3-dichlorobenzene	34	91	12	79 to 103	24	67 to 115	36	55 to 127
1,4-dichlorobenzene	33	89	11	78 to 100	22	67 to 111	33	56 to 122
1,4-dinitrobenzene	34	78	13	65 to 91	26	52 to 104	39	39 to 117
1-naphthylamine	26	71	27	44 to 98	54	17 to 125	81	0 to 152
2,3,4,6-tetrachlorophenol	35	77	14	63 to 91	28	49 to 105	42	35 to 119
2,4,5-trichlorophenol	35	88	14	74 to 102	28	60 to 116	42	46 to 130
2,4,6-trichlorophenol	35	86	15	71 to 101	30	56 to 116	45	41 to 131
2,4-dichlorophenol	34	85	14	71 to 99	28	57 to 113	42	43 to 127
2,4-dimethylphenol	33	83	23	60 to 106	46	37 to 129	69	14 to 152
2,4-dinitrotoluene	35	78	13	65 to 91	26	52 to 104	39	39 to 117
2,6-dichlorophenol	34	88	12	76 to 100	24	64 to 112	36	52 to 124
2,6-dinitrotoluene	35	83	14	69 to 97	28	55 to 111	42	41 to 125
2-(acetylamino) fluorene	34	85	15	70 to 100	30	55 to 115	45	40 to 130
2-chloronaphthalene	35	91	11	80 to 102	22	69 to 113	33	58 to 124
2-chlorophenol	35	88	13	75 to 101	26	62 to 114	39	49 to 127
2-FBP (Surr @ 5mg/kg)	36	89	10	79 to 99	20	69 to 109	30	59 to 119
2-FP (Surr @ 5mg/kg)	36	85	16	69 to 101	32	53 to 117	48	37 to 133
2-methylnaphthalene	34	91	10	81 to 101	20	71 to 111	30	61 to 121
2-methylphenol	34	89	20	69 to 109	40	49 to 129	60	29 to 149
2-naphthylamine	26	63	30	33 to 93	60	3 to 123	90	0 to 153
2-nitroaniline	35	83	13	70 to 96	26	57 to 109	39	44 to 122
2-nitrophenol	35	87	13	74 to 100	26	61 to 113	39	48 to 126
3-&4-methylphenol	35	84	14	70 to 98	28	56 to 112	42	42 to 126
3-methylcholanthrene	34	94	13	81 to 107	26	68 to 120	39	55 to 133
3-nitroaniline	34	67	17	50 to 84	34	33 to 101	51	16 to 118
4,4-DDD	8	96	17	79 to 113	34	62 to 130	51	45 to 147
4,4-DDE	8	107	8	99 to 115	16	91 to 123	24	83 to 131
4,4-DDT	8	100	20	80 to 120	40	60 to 140	60	40 to 160
4-(dimethylamino) azobenzene	35	82	16	66 to 98	32	50 to 114	48	34 to 130
4-aminobiphenyl	34	87	13	74 to 100	26	61 to 113	39	48 to 126
4-bromophenyl phenyl ether	35	92	10	82 to 102	20	72 to 112	30	62 to 122
4-chloro-3-methylphenol	34	86	11	75 to 97	22	64 to 108	33	53 to 119
4-chloroaniline	31	81	20	61 to 101	40	41 to 121	60	21 to 141
4-chlorophenyl phenyl ether	35	89	10	79 to 99	20	69 to 109	30	59 to 119
4-nitroaniline	33	81	20	61 to 101	40	41 to 121	60	21 to 141
5-nitro-o-toluidine	35	91	9	82 to 100	18	73 to 109	27	64 to 118
7,12-dimethylbenz(a)anthracene	32	62	26	36 to 88	52	10 to 114	78	0 to 140
a-BHC	8	100	10	90 to 110	20	80 to 120	30	70 to 130
Acenaphthene	35	90	10	80 to 100	20	70 to 110	30	60 to 120
Acenaphthylene	35	91	13	78 to 104	26	65 to 117	39	52 to 130
Acetophenone	34	89	13	76 to 102	26	63 to 115	39	50 to 128
Aldrin	8	101	7	94 to 108	14	87 to 115	21	80 to 122

Aniline	**31**	**79**	19	60 to 98	38	41 to 117	57	22 to 136
Anthracene	**34**	**92**	11	81 to 103	22	70 to 114	33	59 to 125
Azinophos methyl	**8**	**100**	16	84 to 116	32	68 to 132	48	52 to 148
Azobenzene	**35**	**90**	8	82 to 98	16	74 to 106	24	66 to 114
b-BHC	**8**	**96**	28	68 to 124	56	40 to 152	84	12 to 180
Benz(a)anthracene	**34**	**90**	13	77 to 103	26	64 to 116	39	51 to 129
Benzo(a) pyrene	**32**	**94**	11	83 to 105	22	72 to 116	33	61 to 127
Benzo(b)&(k)fluoranthene	**33**	**95**	12	83 to 107	24	71 to 119	36	59 to 131
Benzo(g,h,i)perylene	**32**	**91**	10	81 to 101	20	71 to 111	30	61 to 121
Benzyl alcohol	**35**	**84**	18	66 to 102	36	48 to 120	54	30 to 138
Bis(2-chloroethoxy) methane	**35**	**91**	13	78 to 104	26	65 to 117	39	52 to 130
Bis(2-chloroethyl)ether	**34**	**93**	14	79 to 107	28	65 to 121	42	51 to 135
Bis(2-chloroisopropyl) ether	**35**	**92**	12	80 to 104	24	68 to 116	36	56 to 128
Bis(2-ethylhexyl) phthalate	**34**	**92**	15	77 to 107	30	62 to 122	45	47 to 137
Butyl benzyl phthalate	**35**	**92**	12	80 to 104	24	68 to 116	36	56 to 128
Carbazole	**35**	**90**	9	81 to 99	18	72 to 108	27	63 to 117
Chlorpyrifos	**8**	**101**	7	94 to 108	14	87 to 115	21	80 to 122
Chrysene	**34**	**88**	13	75 to 101	26	62 to 114	39	49 to 127
cis-chlordane	**8**	**98**	6	92 to 104	12	86 to 110	18	80 to 116
Coumaphos	**8**	**107**	15	92 to 122	30	77 to 137	45	62 to 152
d-BHC	**8**	**96**	14	82 to 110	28	68 to 124	42	54 to 138
Demeton-O	**8**	**91**	9	82 to 100	18	73 to 109	27	64 to 118
Demeton-S	**8**	**95**	9	86 to 104	18	77 to 113	27	68 to 122
Di-n-butyl phthalate	**35**	**95**	11	84 to 106	22	73 to 117	33	62 to 128
Di-n-octyl phthalate	**34**	**90**	19	71 to 109	38	52 to 128	57	33 to 147
Diazinon	**8**	**91**	5	86 to 96	10	81 to 101	15	76 to 106
Dibenz(a,h)anthracene	**33**	**91**	10	81 to 101	20	71 to 111	30	61 to 121
Dibenzofuran	**35**	**91**	8	83 to 99	16	75 to 107	24	67 to 115
Dichlorvos	**8**	**108**	14	94 to 122	28	80 to 136	42	66 to 150
Dieldrin	**8**	**101**	6	95 to 107	12	89 to 113	18	83 to 119
Diethylphthalate	**35**	**89**	10	79 to 99	20	69 to 109	30	59 to 119
Dimethoate	**8**	**92**	7	85 to 99	14	78 to 106	21	71 to 113
Dimethyl phthalate	**35**	**90**	10	80 to 100	20	70 to 110	30	60 to 120
Diphenylamine	**34**	**86**	13	73 to 99	26	60 to 112	39	47 to 125
Disulfoton	**8**	**99**	9	90 to 108	18	81 to 117	27	72 to 126
Endosulfan I	**8**	**104**	7	97 to 111	14	90 to 118	21	83 to 125
Endosulfan II	**8**	**104**	15	89 to 119	30	74 to 134	45	59 to 149
Endosulfan sulphate	**8**	**91**	19	72 to 110	38	53 to 129	57	34 to 148
Endrin	**8**	**95**	25	70 to 120	50	45 to 145	75	20 to 170
Endrin aldehyde	**8**	**94**	27	67 to 121	54	40 to 148	81	13 to 175
Endrin ketone	**7**	**99**	9	90 to 108	18	81 to 117	27	72 to 126
EPN	**8**	**103**	9	94 to 112	18	85 to 121	27	76 to 130
Ethoprop	**8**	**96**	8	88 to 104	16	80 to 112	24	72 to 120
Ethyl methanesulfonate	**34**	**95**	14	81 to 109	28	67 to 123	42	53 to 137
Fenitrothion	**8**	**93**	10	83 to 103	20	73 to 113	30	63 to 123
Fensulfothion	**8**	**98**	11	87 to 109	22	76 to 120	33	65 to 131
Fenthion	**8**	**99**	8	91 to 107	16	83 to 115	24	75 to 123
Fluoranthene	**34**	**93**	12	81 to 105	24	69 to 117	36	57 to 129
Fluorene	**35**	**88**	10	78 to 98	20	68 to 108	30	58 to 118
g-BHC (Lindane)	**8**	**93**	27	66 to 120	54	39 to 147	81	12 to 174
Heptachlor	**8**	**94**	23	71 to 117	46	48 to 140	69	25 to 163
Heptachlor epoxide	**8**	**99**	10	89 to 109	20	79 to 119	30	69 to 129
Hexachlorobenzene	**29**	**83**	13	70 to 96	26	57 to 109	39	44 to 122

Hexachlorobutadiene	**34**	**92**	9	83 to 101	18	74 to 110	27	65 to 119
Hexachlorocyclopentadiene	**29**	**54**	35	19 to 89	70	0 to 124	105	0 to 159
Hexachloroethane	**33**	**84**	13	71 to 97	26	58 to 110	39	45 to 123
Hexachloropropene	**34**	**72**	17	55 to 89	34	38 to 106	51	21 to 123
Indeno(1,2,3-c,d)pyrene	**32**	**89**	11	78 to 100	22	67 to 111	33	56 to 122
Isophorone	**35**	**94**	13	81 to 107	26	68 to 120	39	55 to 133
Isosafrole	**35**	**91**	12	79 to 103	24	67 to 115	36	55 to 127
Malathion	**8**	**97**	7	90 to 104	14	83 to 111	21	76 to 118
Methoxychlor	**8**	**97**	18	79 to 115	36	61 to 133	54	43 to 151
Methyl methanesulfonate	**35**	**85**	14	71 to 99	28	57 to 113	42	43 to 127
Methyl parathion	**8**	**91**	11	80 to 102	22	69 to 113	33	58 to 124
Mevinphos (Phosdrin)	**8**	**93**	10	83 to 103	20	73 to 113	30	63 to 123
N-nitrosodi-n-butylamine	**34**	**91**	15	76 to 106	30	61 to 121	45	46 to 136
N-nitrosodi-n-propylamine	**35**	**88**	21	67 to 109	42	46 to 130	63	25 to 151
N-nitrosodiethylamine	**35**	**97**	13	84 to 110	26	71 to 123	39	58 to 136
N-nitrosomorpholine	**33**	**90**	13	77 to 103	26	64 to 116	39	51 to 129
N-nitrosopiperidine	**35**	**94**	13	81 to 107	26	68 to 120	39	55 to 133
N-nitrosopyrrolidine	**33**	**94**	20	74 to 114	40	54 to 134	60	34 to 154
Naled (Dibrom)	**8**	**88**	14	74 to 102	28	60 to 116	42	46 to 130
Naphthalene	**34**	**92**	12	80 to 104	24	68 to 116	36	56 to 128
NB-d5 (Surr @ 5mg/kg)	**36**	**86**	7	79 to 93	14	72 to 100	21	65 to 107
Nitrobenzene	**34**	**95**	12	83 to 107	24	71 to 119	36	59 to 131
o-toluidine	**32**	**85**	23	62 to 108	46	39 to 131	69	16 to 154
Parathion	**8**	**96**	11	85 to 107	22	74 to 118	33	63 to 129
Pentachlorobenzene	**34**	**90**	10	80 to 100	20	70 to 110	30	60 to 120
Pentachloroethane	**34**	**89**	11	78 to 100	22	67 to 111	33	56 to 122
Pentachloronitrobenzene	**35**	**87**	12	75 to 99	24	63 to 111	36	51 to 123
Pentachlorophenol	**35**	**74**	25	49 to 99	50	24 to 124	75	0 to 149
Phenacetin	**35**	**74**	16	58 to 90	32	42 to 106	48	26 to 122
Phenanthrene	**33**	**93**	12	81 to 105	24	69 to 117	36	57 to 129
Phenol	**35**	**90**	13	77 to 103	26	64 to 116	39	51 to 129
Phenol-d5 (Surr @ 5mg/kg)	**36**	**84**	12	72 to 96	24	60 to 108	36	48 to 120
Phorate	**8**	**97**	11	86 to 108	22	75 to 119	33	64 to 130
Profenofos	**8**	**103**	7	96 to 110	14	89 to 117	21	82 to 124
Prothiofos	**8**	**105**	7	98 to 112	14	91 to 119	21	84 to 126
Pyrene	**34**	**91**	14	77 to 105	28	63 to 119	42	49 to 133
Ronnel	**8**	**101**	5	96 to 106	10	91 to 111	15	86 to 116
Safrole	**35**	**89**	11	78 to 100	22	67 to 111	33	56 to 122
Stirophos	**8**	**95**	10	85 to 105	20	75 to 115	30	65 to 125
Sulfotepp	**8**	**94**	8	86 to 102	16	78 to 110	24	70 to 118
TP-d14 (Surr @ 5mg/kg)	**36**	**88**	11	77 to 99	22	66 to 110	33	55 to 121
trans-chlordane	**8**	**100**	6	94 to 106	12	88 to 112	18	82 to 118
Trichloronate	**8**	**103**	8	95 to 111	16	87 to 119	24	79 to 127

LCS_S

Analyte Name	**n**	**Mean**	1 SD	Range	2 SD	Range	3 SD	Range
1,2,4,5-tetrachlorobenzene	**82**	**92**	10	82 to 102	20	72 to 112	30	62 to 122
1,2,4-trichlorobenzene	**82**	**93**	8	85 to 101	16	77 to 109	24	69 to 117
1,2-dichlorobenzene	**82**	**95**	10	85 to 105	20	75 to 115	30	65 to 125
1,3-dichlorobenzene	**82**	**95**	10	85 to 105	20	75 to 115	30	65 to 125
1,4-dichlorobenzene	**82**	**93**	9	84 to 102	18	75 to 111	27	66 to 120
1,4-dinitrobenzene	**82**	**84**	11	73 to 95	22	62 to 106	33	51 to 117
1-naphthylamine	**81**	**88**	26	62 to 114	52	36 to 140	78	10 to 166
2,3,4,6-tetrachlorophenol	**82**	**73**	14	59 to 87	28	45 to 101	42	31 to 115

2,4,5-trichlorophenol	**83**	**84**	10	74 to 94	20	64 to 104	30	54 to 114
2,4,6-trichlorophenol	**82**	**83**	10	73 to 93	20	63 to 103	30	53 to 113
2,4-dichlorophenol	**82**	**91**	9	82 to 100	18	73 to 109	27	64 to 118
2,4-dimethylphenol	**82**	**90**	11	79 to 101	22	68 to 112	33	57 to 123
2,4-dinitrotoluene	**83**	**83**	10	73 to 93	20	63 to 103	30	53 to 113
2,6-dichlorophenol	**82**	**91**	9	82 to 100	18	73 to 109	27	64 to 118
2,6-dinitrotoluene	**82**	**87**	10	77 to 97	20	67 to 107	30	57 to 117
2-(acetylamino) fluorene	**82**	**73**	13	60 to 86	26	47 to 99	39	34 to 112
2-chloronaphthalene	**82**	**93**	8	85 to 101	16	77 to 109	24	69 to 117
2-chlorophenol	**82**	**94**	10	84 to 104	20	74 to 114	30	64 to 124
2-FBP (Surr @ 5mg/kg)	**83**	**92**	8	84 to 100	16	76 to 108	24	68 to 116
2-FP (Surr @ 5mg/kg)	**83**	**94**	15	79 to 109	30	64 to 124	45	49 to 139
2-methylnaphthalene	**82**	**93**	8	85 to 101	16	77 to 109	24	69 to 117
2-methylphenol	**82**	**91**	10	81 to 101	20	71 to 111	30	61 to 121
2-naphthylamine	**82**	**69**	34	35 to 103	68	1 to 137	102	0 to 171
2-nitroaniline	**82**	**83**	11	72 to 94	22	61 to 105	33	50 to 116
2-nitrophenol	**82**	**86**	13	73 to 99	26	60 to 112	39	47 to 125
3-&4-methylphenol	**82**	**92**	11	81 to 103	22	70 to 114	33	59 to 125
3-methylcholanthrene	**82**	**94**	11	83 to 105	22	72 to 116	33	61 to 127
3-nitroaniline	**81**	**82**	15	67 to 97	30	52 to 112	45	37 to 127
4,4-DDD	**22**	**101**	9	92 to 110	18	83 to 119	27	74 to 128
4,4-DDE	**22**	**98**	8	90 to 106	16	82 to 114	24	74 to 122
4,4-DDT	**22**	**100**	16	84 to 116	32	68 to 132	48	52 to 148
4-(dimethylamino) azobenzene	**82**	**83**	11	72 to 94	22	61 to 105	33	50 to 116
4-aminobiphenyl	**82**	**92**	9	83 to 101	18	74 to 110	27	65 to 119
4-bromophenyl phenyl ether	**82**	**92**	8	84 to 100	16	76 to 108	24	68 to 116
4-chloro-3-methylphenol	**82**	**89**	9	80 to 98	18	71 to 107	27	62 to 116
4-chloroaniline	**82**	**76**	21	55 to 97	42	34 to 118	63	13 to 139
4-chlorophenyl phenyl ether	**82**	**93**	8	85 to 101	16	77 to 109	24	69 to 117
4-nitroaniline	**82**	**84**	12	72 to 96	24	60 to 108	36	48 to 120
5-nitro-o-toluidine	**82**	**94**	8	86 to 102	16	78 to 110	24	70 to 118
7,12-dimethylbenz(a)anthracene	**82**	**76**	16	60 to 92	32	44 to 108	48	28 to 124
a-BHC	**22**	**99**	9	90 to 108	18	81 to 117	27	72 to 126
Acenaphthene	**82**	**94**	8	86 to 102	16	78 to 110	24	70 to 118
Acenaphthylene	**82**	**92**	9	83 to 101	18	74 to 110	27	65 to 119
Acetophenone	**82**	**91**	10	81 to 101	20	71 to 111	30	61 to 121
Aldrin	**22**	**98**	7	91 to 105	14	84 to 112	21	77 to 119
Aniline	**82**	**74**	22	52 to 96	44	30 to 118	66	8 to 140
Anthracene	**82**	**93**	8	85 to 101	16	77 to 109	24	69 to 117
Azinophos methyl	**22**	**91**	18	73 to 109	36	55 to 127	54	37 to 145
Azobenzene	**82**	**92**	9	83 to 101	18	74 to 110	27	65 to 119
b-BHC	**22**	**99**	12	87 to 111	24	75 to 123	36	63 to 135
Benz(a)anthracene	**82**	**91**	8	83 to 99	16	75 to 107	24	67 to 115
Benzo(a) pyrene	**82**	**92**	11	81 to 103	22	70 to 114	33	59 to 125
Benzo(b)&(k)fluoranthene	**82**	**95**	11	84 to 106	22	73 to 117	33	62 to 128
Benzo(g,h,i)perylene	**82**	**93**	11	82 to 104	22	71 to 115	33	60 to 126
Benzyl alcohol	**82**	**91**	12	79 to 103	24	67 to 115	36	55 to 127
Bis(2-chloroethoxy) methane	**82**	**94**	10	84 to 104	20	74 to 114	30	64 to 124
Bis(2-chloroethyl)ether	**82**	**91**	12	79 to 103	24	67 to 115	36	55 to 127
Bis(2-chloroisopropyl) ether	**82**	**95**	10	85 to 105	20	75 to 115	30	65 to 125
Bis(2-ethylhexyl) phthalate	**81**	**85**	15	70 to 100	30	55 to 115	45	40 to 130
Butyl benzyl phthalate	**82**	**87**	10	77 to 97	20	67 to 107	30	57 to 117
Carbazole	**82**	**93**	8	85 to 101	16	77 to 109	24	69 to 117

Chlorpyrifos	**22**	**98**	8	90 to 106	16	82 to 114	24	74 to 122
Chrysene	**82**	**93**	10	83 to 103	20	73 to 113	30	63 to 123
cis-chlordane	**22**	**98**	9	89 to 107	18	80 to 116	27	71 to 125
Coumaphos	**22**	**95**	13	82 to 108	26	69 to 121	39	56 to 134
d-BHC	**22**	**97**	8	89 to 105	16	81 to 113	24	73 to 121
Demeton-O	**22**	**97**	8	89 to 105	16	81 to 113	24	73 to 121
Demeton-S	**22**	**94**	7	87 to 101	14	80 to 108	21	73 to 115
Di-n-butyl phthalate	**82**	**92**	11	81 to 103	22	70 to 114	33	59 to 125
Di-n-octyl phthalate	**82**	**86**	12	74 to 98	24	62 to 110	36	50 to 122
Diazinon	**22**	**87**	8	79 to 95	16	71 to 103	24	63 to 111
Dibenz(a,h)anthracene	**82**	**91**	10	81 to 101	20	71 to 111	30	61 to 121
Dibenzofuran	**82**	**93**	8	85 to 101	16	77 to 109	24	69 to 117
Dichlorvos	**22**	**101**	8	93 to 109	16	85 to 117	24	77 to 125
Dieldrin	**22**	**98**	7	91 to 105	14	84 to 112	21	77 to 119
Diethylphthalate	**82**	**93**	9	84 to 102	18	75 to 111	27	66 to 120
Dimethoate	**22**	**94**	9	85 to 103	18	76 to 112	27	67 to 121
Dimethyl phthalate	**82**	**92**	9	83 to 101	18	74 to 110	27	65 to 119
Diphenylamine	**82**	**91**	9	82 to 100	18	73 to 109	27	64 to 118
Disulfoton	**22**	**95**	7	88 to 102	14	81 to 109	21	74 to 116
Endosulfan I	**22**	**100**	7	93 to 107	14	86 to 114	21	79 to 121
Endosulfan II	**22**	**102**	9	93 to 111	18	84 to 120	27	75 to 129
Endosulfan sulphate	**22**	**101**	10	91 to 111	20	81 to 121	30	71 to 131
Endrin	**22**	**101**	13	88 to 114	26	75 to 127	39	62 to 140
Endrin aldehyde	**22**	**98**	14	84 to 112	28	70 to 126	42	56 to 140
Endrin ketone	**22**	**98**	13	85 to 111	26	72 to 124	39	59 to 137
EPN	**22**	**92**	12	80 to 104	24	68 to 116	36	56 to 128
Ethoprop	**22**	**98**	8	90 to 106	16	82 to 114	24	74 to 122
Ethyl methanesulfonate	**82**	**95**	16	79 to 111	32	63 to 127	48	47 to 143
Fenitrothion	**22**	**90**	10	80 to 100	20	70 to 110	30	60 to 120
Fensulfothion	**22**	**84**	16	68 to 100	32	52 to 116	48	36 to 132
Fenthion	**22**	**99**	8	91 to 107	16	83 to 115	24	75 to 123
Fluoranthene	**82**	**93**	9	84 to 102	18	75 to 111	27	66 to 120
Fluorene	**82**	**93**	9	84 to 102	18	75 to 111	27	66 to 120
g-BHC (Lindane)	**22**	**99**	8	91 to 107	16	83 to 115	24	75 to 123
Heptachlor	**22**	**102**	12	90 to 114	24	78 to 126	36	66 to 138
Heptachlor epoxide	**22**	**97**	8	89 to 105	16	81 to 113	24	73 to 121
Hexachlorobenzene	**78**	**86**	10	76 to 96	20	66 to 106	30	56 to 116
Hexachlorobutadiene	**83**	**94**	8	86 to 102	16	78 to 110	24	70 to 118
Hexachlorocyclopentadiene	**82**	**74**	29	45 to 103	58	16 to 132	87	0 to 161
Hexachloroethane	**82**	**92**	10	82 to 102	20	72 to 112	30	62 to 122
Hexachloropropene	**82**	**87**	14	73 to 101	28	59 to 115	42	45 to 129
Indeno(1,2,3-c,d)pyrene	**82**	**92**	11	81 to 103	22	70 to 114	33	59 to 125
Isophorone	**82**	**94**	10	84 to 104	20	74 to 114	30	64 to 124
Isosafrole	**82**	**91**	9	82 to 100	18	73 to 109	27	64 to 118
Malathion	**22**	**98**	8	90 to 106	16	82 to 114	24	74 to 122
Methoxychlor	**25**	**99**	17	82 to 116	34	65 to 133	51	48 to 150
Methyl methanesulfonate	**81**	**94**	15	79 to 109	30	64 to 124	45	49 to 139
Methyl parathion	**22**	**84**	11	73 to 95	22	62 to 106	33	51 to 117
Mevinphos (Phosdrin)	**22**	**97**	9	88 to 106	18	79 to 115	27	70 to 124
N-nitrosodi-n-butylamine	**82**	**91**	11	80 to 102	22	69 to 113	33	58 to 124
N-nitrosodi-n-propylamine	**82**	**89**	17	72 to 106	34	55 to 123	51	38 to 140
N-nitrosodiethylamine	**82**	**94**	17	77 to 111	34	60 to 128	51	43 to 145
N-nitrosomorpholine	**82**	**92**	10	82 to 102	20	72 to 112	30	62 to 122

N-nitrosopiperidine	**82**	**94**	10	84 to 104	20	74 to 114	30	64 to 124
N-nitrosopyrrolidine	**82**	**95**	15	80 to 110	30	65 to 125	45	50 to 140
Naled (Dibrom)	**21**	**103**	21	82 to 124	42	61 to 145	63	40 to 166
Naphthalene	**82**	**95**	8	87 to 103	16	79 to 111	24	71 to 119
NB-d5 (Surr @ 5mg/kg)	**83**	**91**	9	82 to 100	18	73 to 109	27	64 to 118
Nitrobenzene	**82**	**95**	10	85 to 105	20	75 to 115	30	65 to 125
o-toluidine	**82**	**79**	25	54 to 104	50	29 to 129	75	4 to 154
Parathion	**22**	**90**	10	80 to 100	20	70 to 110	30	60 to 120
Pentachlorobenzene	**82**	**92**	8	84 to 100	16	76 to 108	24	68 to 116
Pentachloroethane	**82**	**92**	11	81 to 103	22	70 to 114	33	59 to 125
Pentachloronitrobenzene	**82**	**86**	10	76 to 96	20	66 to 106	30	56 to 116
Pentachlorophenol	**80**	**70**	16	54 to 86	32	38 to 102	48	22 to 118
Phenacetin	**82**	**77**	12	65 to 89	24	53 to 101	36	41 to 113
Phenanthrene	**82**	**93**	8	85 to 101	16	77 to 109	24	69 to 117
Phenol	**82**	**94**	10	84 to 104	20	74 to 114	30	64 to 124
Phenol-d5 (Surr @ 5mg/kg)	**83**	**90**	10	80 to 100	20	70 to 110	30	60 to 120
Phorate	**22**	**100**	8	92 to 108	16	84 to 116	24	76 to 124
Profenofos	**22**	**91**	10	81 to 101	20	71 to 111	30	61 to 121
Prothiofos	**22**	**95**	8	87 to 103	16	79 to 111	24	71 to 119
Pyrene	**82**	**93**	10	83 to 103	20	73 to 113	30	63 to 123
Ronnel	**22**	**97**	8	89 to 105	16	81 to 113	24	73 to 121
Safrole	**82**	**90**	9	81 to 99	18	72 to 108	27	63 to 117
Stirophos	**22**	**97**	16	81 to 113	32	65 to 129	48	49 to 145
Sulfotepp	**22**	**99**	8	91 to 107	16	83 to 115	24	75 to 123
TP-d14 (Surr @ 5mg/kg)	**83**	**93**	9	84 to 102	18	75 to 111	27	66 to 120
trans-chlordane	**22**	**98**	8	90 to 106	16	82 to 114	24	74 to 122
Trichloronate	**22**	**98**	8	90 to 106	16	82 to 114	24	74 to 122

Laboratory Report No: E032157
Client Name: HLA - Enviroscience Pty Limited
Contact Name: Kumar Srinivasan
Client Reference Police Site S4075802

Date: 04/06/07
This report supercedes reports issued on: N/A

Final
Certificate
of Analysis

Laboratory Identification		**90707**	**90711**	**lcs**	**mb**						
Sample Identification		BH4	DUP05	QC	QC						
Depth (m)		6.0-6.5	--	--	--						
Sampling Date recorded on COC		24/5/07	24/5/07	--	--						
Laboratory Extraction (Preparation) Date		29/5/07	29/5/07	29/5/07	29/5/07						
Laboratory Analysis Date		31/5/07	31/5/07	30/5/07	30/5/07						
Method : E002.2											
BTEX by P&T	**EQL**										
Benzene	0.2	<0.2	<0.2	91%	<0.2						
Toluene	0.5	<0.5	<0.5	88%	<0.5						
Ethylbenzene	0.5	<0.5	<0.5	89%	<0.5						
meta- and para-Xylene	1	<1	<1	89%	<1						
ortho-Xylene	0.5	<0.5	<0.5	91%	<0.5						
Total Xylene	--	--	--	--	--						
CDFB (Surr @ 10mg/kg)	--	*85%*	*83%*	*100%*	*97%*						
Method : E003.2											
Volatile TPH by P&T (vTPH)	**EQL**										
C6 - C9 Fraction	10	<10	<10	80%	<10						

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E002.2: 8-10g soil extracted with 20ml methanol. Analysis by P&T/GC/PID/MSD.
E003.2: 8-10g soil extracted with 20ml methanol. Analysis by P&T/GC/FID.

Laboratory Identification		**90707**	**90711**	**lcs**	**mb**						
Sample Identification		BH4	DUP05	QC	QC						
Depth (m)		6.0-6.5	--	--	--						
Sampling Date recorded on COC		24/5/07	24/5/07	--	--						
Laboratory Extraction (Preparation) Date		29/5/07	29/5/07	29/5/07	29/5/07						
Laboratory Analysis Date		31/5/07	31/5/07	29/5/07	29/5/07						
Method : E006.2											
Petroleum Hydrocarbons (TPH)	**EQL**										
C10 - C14 Fraction	50	<50	<50	--	<50						
C15 - C28 Fraction	100	<100	<100	87%	<100						
C29 - C36 Fraction	100	<100	<100	--	<100						
Sum of TPH C10 - C36	--	--	--	--	--						

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E006.2: 8-10g soil extracted with 20ml DCM/Acetone (8:2). Analysis by GC/FID.

Laboratory Identification		**90712**	**lcs**	**mb**							
Sample Identification		R1	QC	QC							
Depth (m)		--	--	--							
Sampling Date recorded on COC		25/5/07	--	--							
Laboratory Extraction (Preparation) Date		29/5/07	29/5/07	29/5/07							
Laboratory Analysis Date		30/5/07	29/5/07	29/5/07							
Method : E002.1											
BTEX by P&T	**EQL**										
Benzene	1	<1	106%	<1							
Toluene	1	<1	104%	<1							
Ethylbenzene	1	<1	96%	<1							
meta- & para-Xylene	2	<2	95%	<2							
ortho-Xylene	1	<1	97%	<1							
Total Xylene	--	--	--	--							
4-BFB (Surr @ 100ug/l)	--	*75%*	*112%*	*93%*							
Method : E003.1											
Volatile TPH by P&T (vTPH)	**EQL**										
C6-C9	50	<50	98%	<50							

Results expressed in ug/l unless otherwise specified

Comments:

E002.1: Direct injection into P&T/GC/PID/MSD.
E003.1: Direct injection into P&T/GC/FID.

Final
Certificate of Analysis

Laboratory Identification		**90712**	**lcs**	**mb**							
Sample Identification		R1	QC	QC							
Depth (m)		--	--	--							
Sampling Date recorded on COC		25/5/07	--	--							
Laboratory Extraction (Preparation) Date		30/5/07	30/5/07	30/5/07							
Laboratory Analysis Date		31/5/07	30/5/07	30/5/07							
Method : E004.1											
Petroleum Hydrocarbons (TPH)	**EQL**										
C10-C14 Fraction	50	<50	--	<50							
C15-C28 Fraction	200	<200	101%	<200							
C29-C36 Fraction	50	<50	--	<50							
Sum of TPH C10 - C36	--	--	--	--							

Results expressed in ug/l unless otherwise specified

Comments:

E004.1: Triple extraction with DCM. Analysis by GC/FID.

Laboratory Identification		**90707**	**90711**	**lcs**	**mb**						
Sample Identification		BH4	DUP05	QC	QC						
Depth (m)		6.0-6.5	--	--	--						
Sampling Date recorded on COC		24/5/07	24/5/07	--	--						
Laboratory Extraction (Preparation) Date		29/5/07	29/5/07	29/5/07	29/5/07						
Laboratory Analysis Date		1/6/07	1/6/07	30/5/07	30/5/07						
Method : E007.2											
Polyaromatic Hydrocarbons (PAH)	**EQL**										
Naphthalene	0.5	<0.5	<0.5	95%	<0.5						
Acenaphthylene	0.5	<0.5	<0.5	98%	<0.5						
Acenaphthene	0.5	<0.5	<0.5	100%	<0.5						
Fluorene	0.5	<0.5	<0.5	100%	<0.5						
Phenanthrene	0.5	1.2	<0.5	93%	<0.5						
Anthracene	0.5	<0.5	<0.5	97%	<0.5						
Fluoranthene	0.5	2.6	0.8	91%	<0.5						
Pyrene	0.5	2.3	0.7	93%	<0.5						
Benz(a)anthracene	0.5	1.3	<0.5	92%	<0.5						
Chrysene	0.5	1.3	<0.5	101%	<0.5						
Benzo(b)&(k)fluoranthene	1	3	<1	99%	<1						
Benzo(a) pyrene	0.5	1.3	<0.5	91%	<0.5						
Indeno(1,2,3-c,d)pyrene	0.5	0.8	<0.5	88%	<0.5						
Dibenz(a,h)anthracene	0.5	<0.5	<0.5	91%	<0.5						
Benzo(g,h,i)perylene	0.5	0.8	<0.5	88%	<0.5						
Sum of reported PAHs	--	14.6	1.5	--	--						
2-FBP (Surr @ 5mg/kg)	--	*122%*	*110%*	*109%*	*106%*						
TP-d14 (Surr @ 5mg/kg)	--	*124%*	*121%*	*105%*	*107%*						

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E007.2: 8-10g soil extracted with 20ml DCM/acetone (8:2). Analysis by GC/MS.

Laboratory Identification		**90712**	**lcs**	**mb**							
Sample Identification		R1	QC	QC							
Depth (m)		--	--	--							
Sampling Date recorded on COC		25/5/07	--	--							
Laboratory Extraction (Preparation) Date		30/5/07	30/5/07	30/5/07							
Laboratory Analysis Date		31/5/07	31/5/07	31/5/07							
Method : E007.1											
Polyaromatic Hydrocarbons (PAH)	**EQL**										
Naphthalene	1	<1	79%	<1							
Acenaphthylene	1	<1	77%	<1							
Acenaphthene	1	<1	86%	<1							
Fluorene	1	<1	83%	<1							
Phenanthrene	1	<1	94%	<1							
Anthracene	1	<1	83%	<1							
Fluoranthene	1	<1	87%	<1							
Pyrene	1	<1	90%	<1							
Benz(a)anthracene	1	<1	83%	<1							
Chrysene	1	<1	86%	<1							
Benzo(b)&(k)fluoranthene	2	<2	86%	<2							
Benzo(a) pyrene	1	<1	83%	<1							
Indeno(1,2,3-c,d)pyrene	1	<1	76%	<1							
Dibenz(a,h)anthracene	1	<1	77%	<1							
Benzo(g,h,i)perylene	1	<1	78%	<1							
Sum of reported PAHs	--	--	--	--							
2-FBP (Surr @ 250ug/l)	--	*108%*	*80%*	*87%*							
TP-d14 (Surr @ 250ug/l)	--	*114%*	*87%*	*94%*							

Results expressed in ug/l unless otherwise specified

Comments:

E007.1: Triple extraction with DCM. Analysis by GC/MS.

Laboratory Identification		**90707**	**lcs**	**mb**							
Sample Identification		BH4	QC	QC							
Depth (m)		6.0-6.5	--	--							
Sampling Date recorded on COC		24/5/07	--	--							
Laboratory Extraction (Preparation) Date		29/5/07	29/5/07	29/5/07							
Laboratory Analysis Date		30/5/07	30/5/07	30/5/07							
Method : E013.2											
Organochlorine Pesticides (OC)	**EQL**										
a-BHC	0.05	<0.05	93%	<0.05							
Hexachlorobenzene	0.05	<0.05	96%	<0.05							
b-BHC	0.05	<0.05	105%	<0.05							
g-BHC (Lindane)	0.05	<0.05	102%	<0.05							
d-BHC	0.05	<0.05	105%	<0.05							
Heptachlor	0.05	<0.05	89%	<0.05							
Aldrin	0.05	<0.05	98%	<0.05							
Heptachlor epoxide	0.05	<0.05	117%	<0.05							
trans-chlordane	0.05	<0.05	98%	<0.05							
Endosulfan I	0.05	<0.05	91%	<0.05							
cis-chlordane	0.05	<0.05	91%	<0.05							
Dieldrin	0.05	<0.05	98%	<0.05							
4,4-DDE	0.05	<0.05	94%	<0.05							
Endrin	0.05	<0.05	109%	<0.05							
Endosulfan II	0.05	<0.05	95%	<0.05							
4,4-DDD	0.05	<0.05	111%	<0.05							
Endosulfan sulphate	0.05	<0.05	94%	<0.05							
4,4-DDT	0.2	<0.2	100%	<0.2							
Methoxychlor	0.2	<0.2	105%	<0.2							
DBC (Surr @ 0.2mg/kg)	--	*91%*	*100%*	*108%*							

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E013.2: 8-10g soil extracted with 20ml hexane/acetone (1:1). Analysis by GC/dual ECD.

Laboratory Identification		**90707**	**lcs**	**mb**							
Sample Identification		BH4	QC	QC							
Depth (m)		6.0-6.5	--	--							
Sampling Date recorded on COC		24/5/07	--	--							
Laboratory Extraction (Preparation) Date		29/5/07	29/5/07	29/5/07							
Laboratory Analysis Date		31/5/07	31/5/07	31/5/07							
Method : E014.2											
Organophosphorus Pesticides (OP)	**EQL**										
Dichlorvos	0.5	<0.5	117%	<0.5							
Mevinphos (Phosdrin)	0.5	<0.5	85%	<0.5							
Demeton (total)	1	<1	126%	<1							
Ethoprop	0.5	<0.5	125%	<0.5							
Monocrotophos	0.5	<0.5	99%	<0.5							
Phorate	0.5	<0.5	124%	<0.5							
Dimethoate	0.5	<0.5	122%	<0.5							
Diazinon	0.5	<0.5	123%	<0.5							
Disulfoton	0.5	<0.5	129%	<0.5							
Methyl parathion	0.5	<0.5	114%	<0.5							
Ronnel	0.5	<0.5	116%	<0.5							
Fenitrothion	0.5	<0.5	126%	<0.5							
Malathion	0.5	<0.5	127%	<0.5							
Chlorpyrifos	0.5	<0.5	113%	<0.5							
Fenthion	0.5	<0.5	129%	<0.5							
Parathion	0.5	<0.5	122%	<0.5							
Stirofos	0.5	<0.5	127%	<0.5							
Prothiofos	0.5	<0.5	125%	<0.5							
Azinophos methyl	0.5	<0.5	117%	<0.5							
Coumaphos	0.5	<0.5	123%	<0.5							
TPP (Surr @ 2mg/kg)	--	*116%*	*109%*	*116%*							

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E014.2: 8-10g soil extracted with 20ml hexane/acetone (1:1). Analysis by GC/MSD.

Laboratory Identification		**90707**	**lcs**	**mb**							
Sample Identification		BH4	QC	QC							
Depth (m)		6.0-6.5	--	--							
Sampling Date recorded on COC		24/5/07	--	--							
Laboratory Extraction (Preparation) Date		29/5/07	29/5/07	29/5/07							
Laboratory Analysis Date		30/5/07	30/5/07	30/5/07							
Method : E013.2											
Polychlorinated Biphenyls (PCB)	**EQL**										
Arochlor 1016	0.5	<0.5	--	<0.5							
Arochlor 1232	0.5	<0.5	--	<0.5							
Arochlor 1242	0.5	<0.5	--	<0.5							
Arochlor 1248	0.5	<0.5	90%	<0.5							
Arochlor 1254	0.5	<0.5	--	<0.5							
Arochlor 1260	0.5	<0.5	--	<0.5							
Sum of reported PCBs	--	--	--	--							
DBC (Surr @ 0.2mg/kg)	--	*91%*	*99%*	*108%*							

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E013.2: 8-10g soil extracted with 20ml hexane/acetone (1:1). Analysis by GC/dual ECD.

Laboratory Identification		**90707**	**90711**	**crm**	**lcs**	**mb**					
Sample Identification		BH4	DUP05	QC	QC	QC					
Depth (m)		6.0-6.5	--	--	--	--					
Sampling Date recorded on COC		24/5/07	24/5/07	--	--	--					
Laboratory Extraction (Preparation) Date		30/5/07	30/5/07	30/5/07	30/5/07	30/5/07					
Laboratory Analysis Date		31/5/07	31/5/07	30/5/07	30/5/07	30/5/07					
Method : E022.2											
Acid extractable metals (M7)	**EQL**										
Arsenic	1	1	1	109%	99%	<1					
Cadmium	0.1	<0.1	<0.1	96%	97%	<0.1					
Chromium	1	3	2	120%	105%	<1					
Copper	2	7	4	106%	103%	<2					
Nickel	1	1	1	106%	101%	<1					
Lead	2	23	18	91%	100%	<2					
Zinc	5	22	18	100%	99%	<5					

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E022.2: 0.5g digested in nitric/hydrochloric acid. Analysis by ICP-MS.

Laboratory Identification		**90707**	**90711**	**crm**	**lcs**	**mb**					
Sample Identification		BH4	DUP05	QC	QC	QC					
Depth (m)		6.0-6.5	--	--	--	--					
Sampling Date recorded on COC		24/5/07	24/5/07	--	--	--					
Laboratory Extraction (Preparation) Date		30/5/07	30/5/07	30/5/07	30/5/07	30/5/07					
Laboratory Analysis Date		31/5/07	31/5/07	30/5/07	30/5/07	30/5/07					
Method : E026.2											
Acid extractable mercury	**EQL**										
Mercury	0.05	0.09	0.07	105%	101%	<0.05					

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E026.2: 0.5g digested with nitric/hydrochloric acid. Analysis by CV-ICP-MS or FIMS.

Laboratory Identification		**90709**	**lcs**	**mb**							
Sample Identification		BH4	QC	QC							
Depth (m)		8.5-8.8	--	--							
Sampling Date recorded on COC		24/5/07	--	--							
Laboratory Extraction (Preparation) Date		29/5/07	29/5/07	29/5/07							
Laboratory Analysis Date		30/5/07	30/5/07	30/5/07							
Method : E017.2											
Semivolatile Organic Compounds (SVOC)	**EQL**										
Phenols											
Phenol	0.5	<0.5	109%	<0.5							
2-chlorophenol	0.5	<0.5	122%	<0.5							
2-methylphenol	0.5	<0.5	117%	<0.5							
3-&4-methylphenol	1	<1	105%	<1							
2-nitrophenol	0.5	<0.5	124%	<0.5							
2,4-dimethylphenol	0.5	<0.5	122%	<0.5							
2,4-dichlorophenol	0.5	<0.5	120%	<0.5							
2,6-dichlorophenol	0.5	<0.5	121%	<0.5							
4-chloro-3-methylphenol	0.5	<0.5	129%	<0.5							
2,4,6-trichlorophenol	0.5	<0.5	120%	<0.5							
2,4,5-trichlorophenol	0.5	<0.5	114%	<0.5							
2,3,4,6-tetrachlorophenol	0.5	<0.5	103%	<0.5							
Pentachlorophenol	1	<1	113%	<1							
Polynuclear Aromatic Hydrocarbons											
Naphthalene	0.5	<0.5	117%	<0.5							
2-methylnaphthalene	0.5	<0.5	122%	<0.5							
2-chloronaphthalene	0.5	<0.5	119%	<0.5							
Acenaphthylene	0.5	<0.5	125%	<0.5							
Acenaphthene	0.5	<0.5	128%	<0.5							
Fluorene	0.5	<0.5	127%	<0.5							
Phenanthrene	0.5	<0.5	126%	<0.5							
Anthracene	0.5	<0.5	125%	<0.5							
Fluoranthene	0.5	<0.5	122%	<0.5							
Pyrene	0.5	<0.5	121%	<0.5							
2-(acetylamino) fluorene	0.5	<0.5	128%	<0.5							
Benz(a)anthracene	0.5	<0.5	122%	<0.5							

Laboratory Identification		**90709**	**lcs**	**mb**							
Sample Identification		BH4	QC	QC							
Depth (m)		8.5-8.8	--	--							
Sampling Date recorded on COC		24/5/07	--	--							
Laboratory Extraction (Preparation) Date		29/5/07	29/5/07	29/5/07							
Laboratory Analysis Date		30/5/07	30/5/07	30/5/07							
Method : E017.2											
Semivolatile Organic Compounds (SVOC)	**EQL**										
Chrysene	0.5	<0.5	125%	<0.5							
Benzo(b)&(k)fluoranthene	1	<1	121%	<1							
7,12-dimethylbenz(a)anthracene	0.5	<0.5	87%	<0.5							
Benzo(a) pyrene	0.5	<0.5	124%	<0.5							
3-methylcholanthrene	0.5	<0.5	112%	<0.5							
Indeno(1,2,3-c,d)pyrene	0.5	<0.5	116%	<0.5							
Dibenz(a,h)anthracene	0.5	<0.5	120%	<0.5							
Benzo(g,h,i)perylene	0.5	<0.5	112%	<0.5							
Phthalates											
Dimethyl phthalate	0.5	<0.5	124%	<0.5							
Diethylphthalate	0.5	<0.5	123%	<0.5							
Di-n-butyl phthalate	0.5	<0.5	127%	<0.5							
Butyl benzyl phthalate	0.5	<0.5	123%	<0.5							
Bis(2-ethylhexyl) phthalate	5	<5	101%	<5							
Di-n-octyl phthalate	0.5	<0.5	124%	<0.5							
Nitrosamines											
N-nitrosodiethylamine	0.5	<0.5	124%	<0.5							
N-nitrosopyrrolidine	1	<1	108%	<1							
N-nitrosomorpholine	0.5	<0.5	109%	<0.5							
N-nitrosodi-n-propylamine	0.5	<0.5	107%	<0.5							
N-nitrosopiperidine	0.5	<0.5	113%	<0.5							
N-nitrosodi-n-butylamine	0.5	<0.5	111%	<0.5							
Diphenylamine	0.5	<0.5	127%	<0.5							
4-aminobiphenyl	0.5	<0.5	127%	<0.5							
Organochlorine Pesticides											
a-BHC	0.5	<0.5	126%	<0.5							
b-BHC	0.5	<0.5	125%	<0.5							

Laboratory Identification		**90709**	**lcs**	**mb**							
Sample Identification		BH4	QC	QC							
Depth (m)		8.5-8.8	--	--							
Sampling Date recorded on COC		24/5/07	--	--							
Laboratory Extraction (Preparation) Date		29/5/07	29/5/07	29/5/07							
Laboratory Analysis Date		30/5/07	30/5/07	30/5/07							
Method : E017.2											
Semivolatile Organic Compounds (SVOC)	**EQL**										
d-BHC	0.5	<0.5	124%	<0.5							
g-BHC (Lindane)	0.5	<0.5	125%	<0.5							
Heptachlor	0.5	<0.5	120%	<0.5							
Aldrin	0.5	<0.5	121%	<0.5							
Heptachlor epoxide	0.5	<0.5	125%	<0.5							
Endosulfan I	0.5	<0.5	124%	<0.5							
trans-chlordane	0.5	<0.5	122%	<0.5							
cis-chlordane	0.5	<0.5	122%	<0.5							
4,4-DDE	0.5	<0.5	129%	<0.5							
Dieldrin	0.5	<0.5	123%	<0.5							
Endrin	0.5	<0.5	129%	<0.5							
Endosulfan II	0.5	<0.5	123%	<0.5							
4,4-DDD	0.5	<0.5	118%	<0.5							
Endosulfan sulphate	0.5	<0.5	117%	<0.5							
Endrin aldehyde	0.5	<0.5	127%	<0.5							
Endrin ketone	0.5	<0.5	108%	<0.5							
4,4-DDT	1	<1	125%	<1							
Methoxychlor	0.5	<0.5	128%	<0.5							
Organophosphorus Pesticides											
Dichlorvos	0.5	<0.5	127%	<0.5							
Mevinphos (Phosdrin)	0.5	<0.5	116%	<0.5							
Demeton-O	0.5	<0.5	126%	<0.5							
Ethoprop	0.5	<0.5	123%	<0.5							
Phorate	0.5	<0.5	122%	<0.5							
Demeton-S	0.5	<0.5	122%	<0.5							
Dimethoate	0.5	<0.5	119%	<0.5							
Diazinon	0.5	<0.5	122%	<0.5							

Laboratory Identification		**90709**	**lcs**	**mb**							
Sample Identification		BH4	QC	QC							
Depth (m)		8.5-8.8	--	--							
Sampling Date recorded on COC		24/5/07	--	--							
Laboratory Extraction (Preparation) Date		29/5/07	29/5/07	29/5/07							
Laboratory Analysis Date		30/5/07	30/5/07	30/5/07							
Method : E017.2											
Semivolatile Organic Compounds (SVOC)	**EQL**										
Sulfotepp	0.5	<0.5	124%	<0.5							
Disulfoton	0.5	<0.5	127%	<0.5							
Methyl parathion	0.5	<0.5	120%	<0.5							
Ronnel	0.5	<0.5	123%	<0.5							
Malathion	0.5	<0.5	121%	<0.5							
Fenitrothion	0.5	<0.5	114%	<0.5							
Fenthion	0.5	<0.5	120%	<0.5							
Chlorpyrifos	0.5	<0.5	126%	<0.5							
Parathion	0.5	<0.5	129%	<0.5							
Trichloronate	0.5	<0.5	127%	<0.5							
EPN	0.5	<0.5	107%	<0.5							
Stirophos	0.5	<0.5	123%	<0.5							
Prothiofos	0.5	<0.5	119%	<0.5							
Profenofos	0.5	<0.5	122%	<0.5							
Fensulfothion	0.5	<0.5	101%	<0.5							
Azinophos methyl	0.5	<0.5	114%	<0.5							
Coumaphos	0.5	<0.5	122%	<0.5							
Nitroaromatics and Ketones											
Acetophenone	0.5	<0.5	114%	<0.5							
Isophorone	0.5	<0.5	127%	<0.5							
Nitrobenzene	0.5	<0.5	119%	<0.5							
1,4-dinitrobenzene	0.5	<0.5	122%	<0.5							
2,6-dinitrotoluene	1	<1	115%	<1							
2,4-dinitrotoluene	1	<1	124%	<1							
5-nitro-o-toluidine	0.5	<0.5	126%	<0.5							
Azobenzene	0.5	<0.5	116%	<0.5							
4-(dimethylamino) azobenzene	0.5	<0.5	129%	<0.5							

Laboratory Identification		**90709**	**lcs**	**mb**							
Sample Identification		BH4	QC	QC							
Depth (m)		8.5-8.8	--	--							
Sampling Date recorded on COC		24/5/07	--	--							
Laboratory Extraction (Preparation) Date		29/5/07	29/5/07	29/5/07							
Laboratory Analysis Date		30/5/07	30/5/07	30/5/07							
Method : E017.2											
Semivolatile Organic Compounds (SVOC)	**EQL**										
Phenacetin	0.5	<0.5	122%	<0.5							
Pentachloronitrobenzene	0.5	<0.5	122%	<0.5							
Anilines and Benzedines											
Aniline	0.5	<0.5	67%	<0.5							
4-chloroaniline	0.5	<0.5	65%	<0.5							
2-nitroaniline	1	<1	123%	<1							
3-nitroaniline	1	<1	120%	<1							
4-nitroaniline	0.5	<0.5	102%	<0.5							
Dibenzofuran	0.5	<0.5	124%	<0.5							
Carbazole	0.5	<0.5	124%	<0.5							
o-toluidine	0.5	<0.5	62%	<0.5							
1-naphthylamine	0.5	<0.5	71%	<0.5							
2-naphthylamine	0.5	<0.5	50%	<0.5							
Chlorinated Hydrocarbons											
1,3-dichlorobenzene	0.5	<0.5	119%	<0.5							
1,4-dichlorobenzene	0.5	<0.5	119%	<0.5							
1,2-dichlorobenzene	0.5	<0.5	121%	<0.5							
1,2,4-trichlorobenzene	0.5	<0.5	124%	<0.5							
1,2,4,5-tetrachlorobenzene	0.5	<0.5	119%	<0.5							
Pentachlorobenzene	0.5	<0.5	124%	<0.5							
Hexachlorobenzene	0.5	<0.5	128%	<0.5							
Pentachloroethane	0.5	<0.5	118%	<0.5							
Hexachloroethane	0.5	<0.5	120%	<0.5							
Hexachloropropene	0.5	<0.5	121%	<0.5							
Hexachlorobutadiene	0.5	<0.5	119%	<0.5							
Hexachlorocyclopentadiene	2	<2	86%	<2							
Haloethers											

Laboratory Identification		**90709**	**lcs**	**mb**							
Sample Identification		BH4	QC	QC							
Depth (m)		8.5-8.8	--	--							
Sampling Date recorded on COC		24/5/07	--	--							
Laboratory Extraction (Preparation) Date		29/5/07	29/5/07	29/5/07							
Laboratory Analysis Date		30/5/07	30/5/07	30/5/07							
Method : E017.2											
Semivolatile Organic Compounds (SVOC)	**EQL**										
Bis(2-chloroethyl)ether	0.5	<0.5	116%	<0.5							
Bis(2-chloroisopropyl) ether	0.5	<0.5	127%	<0.5							
Bis(2-chloroethoxy) methane	0.5	<0.5	118%	<0.5							
4-chlorophenyl phenyl ether	0.5	<0.5	125%	<0.5							
4-bromophenyl phenyl ether	0.5	<0.5	127%	<0.5							
Miscellaneous Compounds											
Methyl methanesulfonate	0.5	<0.5	124%	<0.5							
Ethyl methanesulfonate	0.5	<0.5	118%	<0.5							
Benzyl alcohol	0.5	<0.5	118%	<0.5							
Safrole	0.5	<0.5	115%	<0.5							
Isosafrole	0.5	<0.5	116%	<0.5							
Surrogate Standards											
2-FP (Surr @ 5mg/kg)	--	*105%*	*107%*	*114%*							
Phenol-d5 (Surr @ 5mg/kg)	--	*96%*	*113%*	*114%*							
NB-d5 (Surr @ 5mg/kg)	--	*92%*	*106%*	*106%*							
2-FBP (Surr @ 5mg/kg)	--	*100%*	*110%*	*115%*							
TP-d14 (Surr @ 5mg/kg)	--	*95%*	*112%*	*120%*							

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E017.2: 8-10g soil extracted with 20ml DCM/Acetone (8:2). Analysis by GC/MS.

Final
Certificate of Analysis

Laboratory Identification		**90707**	**90709**	**90711**							
Sample Identification		BH4	BH4	DUP05							
Depth (m)		6.0-6.5	8.5-8.8	--							
Sampling Date recorded on COC		24/5/07	24/5/07	24/5/07							
Laboratory Extraction (Preparation) Date		29/5/07	29/5/07	29/5/07							
Laboratory Analysis Date		30/5/07	30/5/07	30/5/07							
Method : E005.2											
Moisture	**EQL**										
Moisture	--	18	16	19							

Results expressed in % w/w unless otherwise specified

Comments:

E005.2: Moisture by gravimetric analysis. Results are in % w/w.

AUSTRALIAN SAFER ENVIRONMENT & TECHNOLOGY PTY LTD

ABN 36 088 095 112

Our ref : ASET 12108/ 15288 / 1 - 1
Your ref: E032157
NATA Accreditation No: 14484

30 May 2007

LABMARK
P O Box 641
Hornsby NSW 1630

Attn: Ms Jakleen El Galada

Dear Jakleen,

Asbestos Identification
This report presents the results of one sample, forwarded by LBMARK on 28 May 2007, for analysis for asbestos.

1.Introduction: One sample forwarded was examined and analysed for the presence of asbestos.

2. Methods : The sample was examined under a Stereo Microscope and selected fibres were analysed by Polarized Light Microscopy in conjunction with Dispersion Staining method **(Safer Environment Method 1.)**

3. Results : **Sample No. 1. ASET 12108 / 15288 / 1. E032157 - 90703 - BH4 - 0.2 - 0.3.**
Approx dimensions 5.0 cm x 3.0 cm x 2.0 cm
The sample consisted of a mixture of sandy soil, stones, plant matter, bitumen, volcanic slags like matter, fragments of plaster and brick.
No asbestos detected.

Analysed and reported by,

Karu Jayasundara. BSc (Hons) MAus IMM.
Mineralogist / Chartered Professional of Geology
Approved Signatory.

NATA
WORLD RECOGNISED ACCREDITATION

Quality, Service, Support

Report Date : 28/05/2007
Report Time : 1:22:01PM

Sample **Receipt** Notice (SRN) for **E032157**

Client Details		Laboratory Reference Information	
Client Name:	HLA - Envirosciences Pty Limited	**Please have this information ready when contacting Labmark.**	
Client Phone:	02 8484 8999		
Client Fax:	02 8484 8989	**Laboratory Report:**	**E032157**
Contact Name:	Kumar Srinivasan	**Quotation Number:**	Q0241.ES
Contact Email:	ksrinivasan@hla-enviro.com.au	**Laboratory Address:**	Unit 1, 8 Leighton Pl. Asquith NSW 2077
Client Address:	PO Box 726 Pymble NSW 2073	**Phone:**	61 2 9476 6533
		Fax:	61 2 9476 8219
Project Name:	Police Site	**Sample Receipt Contact:**	Jakleen El Galada
Project Number:	S4075802	**Email:**	jakleen.galada@labmark.com.au
CoC Number:	S09604	**Reporting Contact:**	Jyothi Lal
Purchase Order:	- Not provided -	**Email:**	jyothi.lal@labmark.com.au
Surcharge:	No surcharge applied (results by 6:30pm on due date)		
Sample Matrix:	SOIL & WATER		
Date Sampled (earliest date):	24/05/2007	**NATA Accreditation:**	13542
Date Samples Received:	25/05/2007	**TGA GMP License:**	185-336 (Sydney)
Date Sample Receipt Notice issued:	28/05/2007	**APVMA License:**	6105 (Sydney)
Date Preliminary Report Due:	04/06/2007	**AQIS Approval:**	NO356 (Sydney)
		AQIS Entry Permit:	200521534 (Sydney)

Reporting Requirements: Electronic Data Download required: No

Sample Condition: COC received with samples. Report number and lab ID's defined on COC.
Samples received in good order .
Samples received with cooling media: Crushed ice .
Samples received chilled.
Security seals not required. Direct Labmark's custody taken .
Sample container & chemical preservation suitable .

Comments: Asbdstos subcontracted to ASET.

Holding Times: Date received allows for sufficient time to meet Technical Holding Times.

Preservation: Chemical preservation of samples satisfactory for requested analytes.

Important Notes:

LabMark shall responsibly dispose of spent customer soil and water samples which includes the disintegration of the sample label. A sample disposal fee of $1.00 is applicable on all samples received by the laboratory regardless of whether they have undergone analytical testing. Sample disposal of environmental samples shall be 31 days (water) and 3 months (soil, HN03 preserved samples) after laboratory receipt, unless otherwise requested in writing by the client. Samples requested to be held in non-refrigerated storage shall incur $5.00/ sample/ 3 months. Additional refrigerated storage shall incur $30/ sample/ 3 months. Combination prices apply only if requested. Transfer of report ownership from LabMark to the client shall occur once full and final payment has been settled and verified. All report copies may be retracted where full payment does not occur within the agreed settlement period.

Analysis comments:

Subcontracted Analyses:

Reported by Aust. Safer Env & Tech., NATA accreditation No. 14484

Thank you for choosing Labmark to analyse your project samples.

Additional information on www.labmark.com.au

Report Date : 28/05/2007
Report Time : 1:22:01PM

Quality, Service, Support

Sample **Receipt** Notice (SRN) for **E032157**

The table below represents LabMark's understanding and interpretation of the customer supplied sample COC request. Please confirm that your COC request has been entered correctly. Due to THT and TAT requirements, testing shall commence immediately as per this table, unless the customer intervenes with a correction prior to testing.

GRID REVIEW TABLE

No.	Date	Depth	Client Sample ID	Requested Analysis: BTEX by P&T	BTEX by P&T	Acid extractable mercury	HOLD ON HOLD	Acid extractable metals (M7)	Moisture	Organochlorine Pesticides (OC)	Organophosphorus Pesticides (OP)	Polyaromatic Hydrocarbons (PAH)	Polyaromatic Hydrocarbons (PAH)	Polychlorinated Biphenyls (PCB)	PREP Not Reported	PREP Not Reported	Semivolatile Organic Compounds (SVOC)	Petroleum Hydrocarbons (TPH)	Petroleum Hydrocarbons (TPH)	Volatile TPH by P&T (vTPH)	Volatile TPH by P&T (vTPH)	External Not reported- Asbestos	
90703	24/05	0.2-0.3	BH4												●							●	
90704	24/05	0.4-0.5	BH4				●																
90705	24/05	1.0-1.5	BH4				●																
90706	24/05	3.0-3.5	BH4				●																
90707	24/05	6.0-6.5	BH4	●		●		●	●	●	●	●		●	●			●		●			
90708	24/05	7.5-8.0	BH4				●																
90709	24/05	8.5-8.8	BH4						●						●		●						
90710	25/05	9.7-10.0	BH4				●																
90711	24/05		DUP05	●		●		●	●			●			●			●		●			
90712	25/05		R1		●								●			●			●		●		
			Totals:	2	1	2	5	2	3	1	1	2	1	1	4	1	1	2	1	2	1	1	

Thank you for choosing Labmark to analyse your project samples.
Additional information on www.labmark.com.au

Quality, Service, Support

Report Date : 28/05/2007
Report Time : 1:22:01PM

Sample **Receipt** Notice (SRN) for **E032157**

No.	Date	Depth	Client Sample ID	Requested Analysis: M8 - M7-T_S																			
90707	24/05	6.0-6.5	BH4	●																			
90711	24/05		DUP05	●																			
			Totals:	2																			

Thank you for choosing Labmark to analyse your project samples.
Additional information on www.labmark.com.au

Form QS0073, Rev.10: Date Issued 11/10/2006

S09604 CHAIN OF CUSTODY

Combination Prices only apply if Combo request is circled on COC.

PAGE 1 OF 1

PO 143499

Safety Precaution: laboratory sample bottles may contain preservation acid / chemicals refer to SAFETY label on bottle.

LABMARK

NATA 13542, AQIS N0356

Dispatch samples to:
Unit1/ 8 Leighton Place
Asquith NSW 2077
or
116 Moray Street
South Melbourne VIC 3205

Tel (SYD): 612-9476-6533
Fax (SYD): 612-9476-8219
Tel (MEL): 613-9686-8344
Fax (MEL): 613-9686-7344
(DB): 0409449684, (PW): 0439390209
ros.schacht@labmark.com.au
paul.woodward@labmark.com.au

Client Details

Company & Address: HLA Sydney
Project Manager: K. Srinivasan
Project Name: Police Site
Project Type (eg. Service Station):
Sampler: D Dungerfield
Project No: S4075802
Tel:
Fx:
Date Required: 1 June 07
Lab. Quote No: EQ0241.ES

Global Specifications I require (default is Not required if Not ticked):

YES (tick)

1. Urgent TAT required? (please circle: **1** day **2** days **3** days ..... days)
2. Do you require sediment present in waters to be included in organic/ inorganic extractions?
3. Do you require additional QA/QC reported where sample batches submitted are < 10 samples? (Fee Applies)
4. Do you require additional EQA or batch specific LCS/ MB results every 20 samples? (Fee Applies)
5. **Do you require DIFFERENT standard EQL's from those stated in the current LabMark price catalogue?**
6. Do you wish chromatograms to be supplied? (Additional fee applies).
7. Electronic data transfer (circle: fax .xls .csv .pdf). Please specify.

Note1: Additional water sample must be submitted for lab. duplicate & spike analysis.
Note2: Contact lab if consolidating multiple analyses into a single sample container.

Analysis Request

Lab. Number	Sample ID	Sample Depth	Sampling Date	Matrix: soil	water	air	paint, filters	other	Container Type (Nat. = unpreserved, G=glass, P=plastic): Soil (G) Nat. Orange	0.5-1L (G) Nat. Orange	43ml VOA (G) Nat. Orange	43ml VOA (G) HCl Maroon	0.1-1L (P) H2SO4 Purple	0.1-1L (G) H2SO4 Purple	0.1-1L (P) Nat. Green	0.1-0.2L (P) HNO3 Red Filtered YES/ NO	0.1-1L (P) NaOH, CdNO3 Blue	Other
90703	BH4_0.2-0.3		24/05/07	✓					✓									
90704	BH4_0.4-0.5			✓					✓									
90705	BH4_1.0-1.5			✓					✓									
90706	BH4_30-35			✓					✓									
90707	BH4_60-65			✓					✓									
90708	BH4_7.5-8.0			✓					✓									
90709	BH4_8.5-8.8			✓					✓									
90710	BH4_9.7-10.0		25/05/07	✓					✓									
90711	DUP05		24/05/07	✓					✓									
90712	R1		25/05/07			✓												
Totals																		

Volatile Tests: BTEX+vTPH (C6-9) PT-GC/FID/PID/orMS (125g, 2x43 ml); VHC PT-GC/MS (125g, 2x43ml); THM PT-GC/MS (125g, 2x43ml); MTBE PT-GC/MS (125g, 2x43ml); VAC PT-GC/MS; VOC PT-GC/MS

Semi- & Non-Volatile Tests (125g (max. 4 tests)): TPH (C10-36) GC/FID (500 ml); PAH's GC/MS (500 ml); Phenols GC/MS (500 ml); Aromatic/ Aliphatic TPH GC/FID (500 ml); (circle) OC, OP, PCB GC/ECD/FPD (500 ml); SVOC GC/MS (1 L); Phenoxy Acid Herbicides GC/MS (500 ml); Explosives HPLC (125 ml)

Leach (250g): (circle) Metals* (dissolved / total); TCLP (specify test - other); ZHE TCLP (specify test - other)

Nutrient Tests (125g (max. 4 tests); 0.1 - 1L (chemical groups)): (circle) pH, EC; (circle) NH_3, TKN, N_{org}, TN; (circle) NO_x, NO_3^-, NO_2^-; (circle) TP, ortho-P, TKP; (circle) soluble/total; (circle) Cl^-, F^-, SO_4^{2-} (circle); Total Alk, Speciated Alk; (circle) Free CN, WAD, Total CN; Total Phenolics; Cations (circle) sol/total -Ca, Mg, Na, K

Other (eg. TCLP tests here): Asbestos ✓; Hold ✓

*Metals (circle) As, Cd, Cr, Cu, Ni, Pb, Zn, Hg, Cr^{6+}, Cr^{3+}, Fe^{2+}, Fe^{3+}, Be, B, Al, V, Mn, Fe, Co, Se, Sr, Sn, Mo, Ag, Ba, Tl, Bi, Sb

Comments (Highly contaminated samples):

Lab Report No. EO32157

Security Seal Applied: YES/NO
Security Seal Serial #:

Relinquished by (print): D. Dungerfield — Signed: D Dungerfield — Date: 25/05/07 — Received By: — Date: — Time:

Relinquished by (print): — Signed: — Date: — Received By: — Date: — Time:

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AUSTRALIAN SAFER ENVIRONMENT & TECHNOLOGY PTY LTD

ABN 36 088 095 112

Our ref : ASET 12108/ 15288 / 1 - 1
Your ref: E032157
NATA Accreditation No: 14484

30 May 2007

LABMARK
P O Box 641
Hornsby NSW 1630

Attn: Ms Jakleen El Galada

Dear Jakleen,

Asbestos Identification
This report presents the results of one sample, forwarded by LBMARK on 28 May 2007, for analysis for asbestos.

1.Introduction: One sample forwarded was examined and analysed for the presence of asbestos.

2. Methods : The sample was examined under a Stereo Microscope and selected fibres were analysed by Polarized Light Microscopy in conjunction with Dispersion Staining method **(Safer Environment Method 1.)**

3. Results : **Sample No. 1. ASET 12108 / 15288 / 1. E032157 - 90703 - BH4 - 0.2 - 0.3.**
Approx dimensions 5.0 cm x 3.0 cm x 2.0 cm
The sample consisted of a mixture of sandy soil, stones, plant matter, bitumen, volcanic slags like matter, fragments of plaster and brick.
No asbestos detected.

Analysed and reported by,

Karu Jayasundara. BSc (Hons) MAus IMM.
Mineralogist / Chartered Professional of Geology
Approved Signatory.

NATA
WORLD RECOGNISED ACCREDITATION

CUSTOMER CENTRIC - ANALYTICAL CHEMISTS

No. 13542.

Accredited for compliance with ISO/IEC 17025. The results of tests, calibrations and/or measurements included in this document are traceable to Australian/national standards. NATA is a signatory to the APLAC mutual recognition arrangement for the mutual recognition of the equivalence of testing, calibration and inspection reports.

AUSTRALIAN QUARANTINE AND INSPECTION SERVICE

SYDNEY License No. N0356.

Quarantine Approved premises criteria 5.1 for quarantine containment level 1 (QCI) facilities. Class five criteria cover premises utilised for research, analysis,and/or testing of biological material, soil, animal, plant and human products.

FINAL CERTIFICATE OF ANALYSIS - ENVIRONMENTAL DIVISION

Laboratory Report No:	E032250
Client Name:	HLA - Envirosciences Pty Limited
Client Reference:	Police Site
Contact Name:	Laura O'Hea
Chain of Custody No:	na
Sample Matrix:	SOIL & WATER

Cover Page 1 of 4
plus Sample Results

Date Received: 30/05/2007
Date Reported: 08/06/2007

This Final Certificate of Analysis consists of sample results, DQI's, method descriptions, laboratory definitions, and internationally recognised NATA accreditation and endorsement. The DQO compliance relates specifically to QA/QC results as performed as part of the sample analysis, and may provide an indication of sample result quality. Transfer of report ownership from Labmark to the client shall only occur once full & final payment has been settled and verified. All report copies may be retracted where full payment has not occured within the agreed settlement period.

QUALITY ASSURANCE CRITERIA

Accuracy:	matrix spike:	1 in first 5-20, then 1 every 20 samples
	lcs, crm, method:	1 per analytical batch
	surrogate spike:	addition per target organic method
Precision:	laboratory duplicate:	1 in first 5-10, then 1 every 10 samples
	laboratory triplicate:	re-extracted & reported when duplicate RPD values exceed acceptance criteria
Holding Times:	soils, waters:	Refer to LabMark Preservation & THT table VOC's 14 days water / soil VAC's 7 days water or 14 days acidified VAC's 14 days soil SVOC's 7 days water, 14 days soil Pesticides 7 days water, 14 days soil Metals 6 months general elements Mercury 28 days
Confirmation:	target organic analysis:	GC/MS, or confirmatory column
Sensitivity:	EQL:	Typically 2-5 x Method Detection Limit (MDL)

QUALITY CONTROL GLOBAL ACCEPTANCE CRITERIA (GAC)

Accuracy:	spike, lcs, crm surrogate:	general analytes 70% - 130% recovery phenol analytes 50% - 130% recovery organophosphorous pesticide analytes 60% - 130% recovery phenoxy acid herbicides 50% - 130% recovery
	anion/cation bal:	+/- 10% (0-3 meq/l), +/- 5% (>3 meq/l)
Precision:	method blank:	not detected >95% of the reported EQL
	duplicate lab RPD (metals):	0-30% (>10xEQL), 0-75% (5-10xEQL) 0-100% (<5xEQL)
	duplicate lab RPD:	0-50% (>10xEQL), 0-75% (5-10xEQL) 0-100% (<5xEQL)

QUALITY CONTROL ANALYTE SPECIFIC ACCEPTANCE CRITERIA (ASAC)

Accuracy:	spike, lcs, crm surrogate:	analyte specific recovery data <3xsd of historical mean
Uncertainty:	spike, lcs:	measurement calculated from historical analyte specific control charts

RESULT ANNOTATION

DQO:	Data Quality Objective	s:	matrix spike recovery	p:	pending
DQI:	Data Quality Indicator	d:	laboratory duplicate	lcs:	laboratory control sample
EQL:	Estimated Quantitation Limit	t:	laboratory triplicate	crm:	certified reference material
- - :	not applicable	r:	RPD relative % difference	mb:	method blank

David Burns
Quality Control (Report signatory)
david.burns@labmark.com.au

Geoff Weir
Authorising Chemist (NATA signatory)
geoff.weir@labmark.com.au

Simon Mills
Authorising Chemist (NATA signatory)
simon.mills@labmark.com.au

This document is issued in accordance with NATA's accreditation requirements.

NEPC GUIDELINE COMPLIANCE - DQO

1. GENERAL

A. Results relate specifically to samples as received. Sample results are not corrected for matrix spike, lcs, or surrogate recovery data.

B. EQL's are matrix dependant and may be increased due to sample dilution or matrix interference.

C. Laboratory QA/QC samples are specific to this project.

D. Inter-laboratory proficiency results are available upon request. NATA accreditation details available at www.nata.asn.au.

E. VOC spikes & surrogates added to samples during extraction, SVOC spikes & surrogates added prior to extraction.

F. Recovery data outside GAC limits shall be investigated and compared to ASAC (historical mean +/- 3sd). If recovery data <20%, then the relevant results for that compound are considered not reliable.

G. Recovery data (ms, surrogate, crm, lcs) outside ASAC limits shall initiate an investigative action. Anomolous QC data is examined in conjunction with other QC samples and a final decision whether to accept or reject results is provided by the professional judgement of the senior analyst. The USEPA-CLP National Functional Guidelines are referred to for specific recommendations.

H. Extraction (preparation) date refers to the date that sample preparation was initiated. Note that certain methods not requiring sample preparation (eg. VOCs in water, etc) may report a common extraction and analysis date.

I. LabMark shall maintain an official copy of this Certificate of Analysis for all tracable reference purposes.

2. CHAIN OF CUSTODY (COC) & SAMPLE RECEIPT NOTICE (SRN) REQUIREMENTS

A. SRN issued to client upon sample receipt & login verification.

B. Preservation & sampling date details specified on COC and SRN, unless noted.

C. Sample Integrity & Validated Time of Sample Receipt (VTSR) Holding Times verified (preservation may extend holding time, refer to preservation chart).

3. NATA ACCREDITED METHODS

A. NATA accreditation held for each method and sample matrix type reported, unless noted below.

B. NATA accredited in-house laboratory methods are referenced from NEPC, ASTM, modified USEPA / APHA documents. Corporate Accreditation No. 13542.

C. Subcontracted analyses: Refer to Sample Receipt Notice and additional DQO comments.

LabMark PTY LTD ABN 27 079 798 397
* SYDNEY: Unit 1, 8 Leighton Place Asquith NSW 2077 * MELBOURNE: 116 Moray Street, South Melbourne VIC 3205
* Telephone: (02) 9476 6533 * Fax: (02) 9476 8219 * Telephone: (03) 9686 8344 * Fax: (03) 9686 7344

4. QA/QC FREQUENCY COMPLIANCE TABLE SPECIFIC TO THIS REPORT

Matrix: **SOIL**

Page:	Method:	Totals:	#d	%d-ratio	#t	#s	%s-ratio
1	BTEX by P&T	6	1	17%	0	1	17%
1	Volatile TPH by P&T (vTPH)	6	1	17%	0	1	17%
3	Petroleum Hydrocarbons (TPH)	6	1	17%	0	1	17%
7	Polyaromatic Hydrocarbons (PAH)	6	1	17%	0	1	17%
10	Phenols by GC/MS	3	0	0%	0	0	0%
11	Organochlorine Pesticides (OC)	3	0	0%	0	0	0%
12	Organophosphorus Pesticides (OP)	3	0	0%	0	0	0%
13	Polychlorinated Biphenyls (PCB)	3	0	0%	0	0	0%
14	Acid extractable metals (M7)	6	1	17%	0	1	17%
16	Acid extractable mercury	6	1	17%	0	1	17%
17	Moisture	8	--	--	--	--	--

Matrix: **WATER**

Page:	Method:	Totals:	#d	%d-ratio	#t	#s	%s-ratio
5	BTEX by P&T	1	0	0%	0	0	0%
5	Volatile TPH by P&T (vTPH)	1	0	0%	0	0	0%
6	Petroleum Hydrocarbons (TPH)	1	0	0%	0	0	0%
9	Polyaromatic Hydrocarbons (PAH)	1	0	0%	0	0	0%

GLOSSARY:

#d	number of discrete duplicate extractions/analyses performed.
%d-ratio	NEPC guideline for laboratory duplicates is 1 in 10 samples (min 10%).
#t	number of triplicate extractions/analyses performed.
#s	number of spiked samples analysed.
%s-ratio	USEPA guideline for laboratory matrix spikes is 1 in 20 samples (min 5%).

LabMark PTY LTD ABN 27 079 798 397
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5. THERE ARE NO ADDITIONAL COMMENTS SPECIFIC TO THIS REPORT

A. All tests were conducted by LabMark Environmental Sydney, NATA accreditation No. 13542, Corporate Site No. 13535., unless indicated below.

Laboratory QA/QC data shall relate specifically to this report, and may provide an indication of site specific sample result quality. LabMark DOES NOT report NON-RELEVANT BATCH QA/QC data. Acceptance of this self assessment certificate does not preclude any requirement for a QA/QC review by a accredited contaminated site EPA auditor, when and wherever necessary. Laboratory QA/QC self assessment references available upon request.

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Laboratory Report No: E032250
Client Name: HLA - Envirosciences Pty Limited
Contact Name: Laura O'Hea
Client Reference Police Site S4075802

Page: 1 of 17
plus cover page
Date: 08/06/07
This report supercedes reports issued on: 06/06/07

Final
Certificate
of Analysis

Laboratory Identification		91859	91861	91865	91867	91868	91872	91861d	91861r	91868s	lcs
Sample Identification		BH6	BH12	BH12	BH13	BH13	DUP06	QC	QC	QC	QC
Depth (m)		1.0-1.5	0.4-0.5	1-1.45	0.3-0.4	4.5-5	--	--	--	--	--
Sampling Date recorded on COC		25/5/07	29/5/07	29/5/07	28/5/07	28/5/07	28/5/07	--	--	--	--
Laboratory Extraction (Preparation) Date		1/6/07	1/6/07	1/6/07	1/6/07	1/6/07	1/6/07	1/6/07	--	1/6/07	1/6/07
Laboratory Analysis Date		5/6/07	5/6/07	5/6/07	5/6/07	5/6/07	5/6/07	5/6/07	--	5/6/07	1/6/07
Method : E002.2											
BTEX by P&T	**EQL**										
Benzene	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	90%	98%
Toluene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	91%	104%
Ethylbenzene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	87%	104%
meta- and para-Xylene	1	<1	<1	<1	<1	<1	<1	<1	--	87%	102%
ortho-Xylene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	88%	103%
Total Xylene	--	--	--	--	--	--	--	--	--	--	--
CDFB (Surr @ 10mg/kg)	--	*87%*	*81%*	*86%*	*72%*	*82%*	*84%*	*82%*	*1%*	*87%*	*117%*
Method : E003.2											
Volatile TPH by P&T (vTPH)	**EQL**										
C6 - C9 Fraction	10	<10	<10	<10	<10	<10	<10	<10	--	75%	101%

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E002.2: 8-10g soil extracted with 20ml methanol. Analysis by P&T/GC/PID/MSD.
E003.2: 8-10g soil extracted with 20ml methanol. Analysis by P&T/GC/FID.

Laboratory Identification		**mb**									
Sample Identification		QC									
Depth (m)		--									
Sampling Date recorded on COC		--									
Laboratory Extraction (Preparation) Date		1/6/07									
Laboratory Analysis Date		1/6/07									
Method : E002.2											
BTEX by P&T	**EQL**										
Benzene	0.2	<0.2									
Toluene	0.5	<0.5									
Ethylbenzene	0.5	<0.5									
meta- and para-Xylene	1	<1									
ortho-Xylene	0.5	<0.5									
Total Xylene	--	--									
CDFB (Surr @ 10mg/kg)	--	*98%*									
Method : E003.2											
Volatile TPH by P&T (vTPH)	**EQL**										
C6 - C9 Fraction	10	<10									

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E002.2: 8-10g soil extracted with 20ml methanol. Analysis by P&T/GC/PID/MSD.
E003.2: 8-10g soil extracted with 20ml methanol. Analysis by P&T/GC/FID.

Laboratory Identification		**91859**	**91861**	**91865**	**91867**	**91868**	**91872**	**91861d**	**91861r**	**91868s**	**lcs**
Sample Identification		BH6	BH12	BH12	BH13	BH13	DUP06	QC	QC	QC	QC
Depth (m)		1.0-1.5	0.4-0.5	1-1.45	0.3-0.4	4.5-5	--	--	--	--	--
Sampling Date recorded on COC		25/5/07	29/5/07	29/5/07	28/5/07	28/5/07	28/5/07	--	--	--	--
Laboratory Extraction (Preparation) Date		1/6/07	1/6/07	1/6/07	1/6/07	1/6/07	1/6/07	1/6/07	--	1/6/07	1/6/07
Laboratory Analysis Date		5/6/07	5/6/07	5/6/07	5/6/07	5/6/07	5/6/07	5/6/07	--	5/6/07	3/6/07
Method : E006.2											
Petroleum Hydrocarbons (TPH)	**EQL**										
C10 - C14 Fraction	50	<50	<50	<50	<50	<50	<50	<50	--	--	--
C15 - C28 Fraction	100	<100	<100	<100	<100	<100	<100	<100	--	100%	87%
C29 - C36 Fraction	100	<100	<100	<100	<100	<100	<100	120	--	--	--
Sum of TPH C10 - C36	--	--	--	--	--	--	--	120	--	--	--

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E006.2: 8-10g soil extracted with 20ml DCM/Acetone (8:2). Analysis by GC/FID.

Laboratory Identification		**mb**									
Sample Identification		QC									
Depth (m)		--									
Sampling Date recorded on COC		--									
Laboratory Extraction (Preparation) Date		1/6/07									
Laboratory Analysis Date		3/6/07									
Method : E006.2											
Petroleum Hydrocarbons (TPH)	**EQL**										
C10 - C14 Fraction	50	<50									
C15 - C28 Fraction	100	<100									
C29 - C36 Fraction	100	<100									
Sum of TPH C10 - C36	--	--									

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E006.2: 8-10g soil extracted with 20ml DCM/Acetone (8:2). Analysis by GC/FID.

Laboratory Identification		**91871**	**lcs**	**mb**							
Sample Identification		R2	QC	QC							
Depth (m)		--	--	--							
Sampling Date recorded on COC		29/5/07	--	--							
Laboratory Extraction (Preparation) Date		1/6/07	1/6/07	1/6/07							
Laboratory Analysis Date		1/6/07	1/6/07	1/6/07							
Method : E002.1											
BTEX by P&T	**EQL**										
Benzene	1	<1	102%	<1							
Toluene	1	<1	100%	<1							
Ethylbenzene	1	<1	93%	<1							
meta- & para-Xylene	2	<2	92%	<2							
ortho-Xylene	1	<1	93%	<1							
Total Xylene	--	--	--	--							
4-BFB (Surr @ 100ug/l)	--	*80%*	*95%*	*78%*							
Method : E003.1											
Volatile TPH by P&T (vTPH)	**EQL**										
C6-C9	50	<50	95%	<50							

Results expressed in ug/l unless otherwise specified

Comments:

E002.1: Direct injection into P&T/GC/PID/MSD.
E003.1: Direct injection into P&T/GC/FID.

Laboratory Identification		**91871**	**lcs**	**mb**							
Sample Identification		R2	QC	QC							
Depth (m)		--	--	--							
Sampling Date recorded on COC		29/5/07	--	--							
Laboratory Extraction (Preparation) Date		1/6/07	1/6/07	1/6/07							
Laboratory Analysis Date		5/6/07	1/6/07	1/6/07							
Method : E004.1											
Petroleum Hydrocarbons (TPH)	**EQL**										
C10-C14 Fraction	50	<50	--	<50							
C15-C28 Fraction	200	<200	100%	<200							
C29-C36 Fraction	50	<50	--	<50							
Sum of TPH C10 - C36	--	--	--	--							

Results expressed in ug/l unless otherwise specified

Comments:

E004.1: Triple extraction with DCM. Analysis by GC/FID.

Laboratory Identification		**91859**	**91861**	**91865**	**91867**	**91868**	**91872**	**91861d**	**91861r**	**91868s**	**lcs**
Sample Identification		BH6	BH12	BH12	BH13	BH13	DUP06	QC	QC	QC	QC
Depth (m)		1.0-1.5	0.4-0.5	1-1.45	0.3-0.4	4.5-5	--	--	--	--	--
Sampling Date recorded on COC		25/5/07	29/5/07	29/5/07	28/5/07	28/5/07	28/5/07	--	--	--	--
Laboratory Extraction (Preparation) Date		1/6/07	1/6/07	1/6/07	1/6/07	1/6/07	1/6/07	1/6/07	--	1/6/07	1/6/07
Laboratory Analysis Date		4/6/07	4/6/07	4/6/07	4/6/07	4/6/07	4/6/07	4/6/07	--	7/6/07	2/6/07
Method : E007.2											
Polyaromatic Hydrocarbons (PAH)	**EQL**										
Naphthalene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	111%	120%
Acenaphthylene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	97%	126%
Acenaphthene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	104%	125%
Fluorene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	104%	120%
Phenanthrene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	107%	119%
Anthracene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	117%	123%
Fluoranthene	0.5	<0.5	0.5	0.8	<0.5	<0.5	<0.5	0.5	0%	112%	124%
Pyrene	0.5	<0.5	<0.5	0.8	<0.5	<0.5	<0.5	0.5	>0%	116%	116%
Benz(a)anthracene	0.5	<0.5	<0.5	0.5	<0.5	<0.5	<0.5	<0.5	--	118%	108%
Chrysene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	116%	113%
Benzo(b)&(k)fluoranthene	1	<1	<1	<1	<1	<1	<1	<1	--	117%	106%
Benzo(a) pyrene	0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	--	113%	105%
Indeno(1,2,3-c,d)pyrene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	109%	107%
Dibenz(a,h)anthracene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	104%	98%
Benzo(g,h,i)perylene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	105%	103%
Sum of reported PAHs	--	--	0.5	2.7	--	--	--	1.0	67%	--	--
2-FBP (Surr @ 5mg/kg)	--	*94%*	*91%*	*86%*	*100%*	*100%*	*110%*	*96%*	*5%*	*103%*	*79%*
TP-d14 (Surr @ 5mg/kg)	--	*86%*	*91%*	*90%*	*90%*	*97%*	*101%*	*94%*	*3%*	*108%*	*78%*

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E007.2: 8-10g soil extracted with 20ml DCM/acetone (8:2). Analysis by GC/MS.

Laboratory Identification		**mb**									
Sample Identification		QC									
Depth (m)		--									
Sampling Date recorded on COC		--									
Laboratory Extraction (Preparation) Date		1/6/07									
Laboratory Analysis Date		2/6/07									
Method : E007.2											
Polyaromatic Hydrocarbons (PAH)	**EQL**										
Naphthalene	0.5	<0.5									
Acenaphthylene	0.5	<0.5									
Acenaphthene	0.5	<0.5									
Fluorene	0.5	<0.5									
Phenanthrene	0.5	<0.5									
Anthracene	0.5	<0.5									
Fluoranthene	0.5	<0.5									
Pyrene	0.5	<0.5									
Benz(a)anthracene	0.5	<0.5									
Chrysene	0.5	<0.5									
Benzo(b)&(k)fluoranthene	1	<1									
Benzo(a) pyrene	0.5	<0.5									
Indeno(1,2,3-c,d)pyrene	0.5	<0.5									
Dibenz(a,h)anthracene	0.5	<0.5									
Benzo(g,h,i)perylene	0.5	<0.5									
Sum of reported PAHs	--	--									
2-FBP (Surr @ 5mg/kg)	--	*98%*									
TP-d14 (Surr @ 5mg/kg)	--	*103%*									

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E007.2: 8-10g soil extracted with 20ml DCM/acetone (8:2). Analysis by GC/MS.

Laboratory Identification		**91871**	**lcs**	**mb**							
Sample Identification		R2	QC	QC							
Depth (m)		--	--	--							
Sampling Date recorded on COC		29/5/07	--	--							
Laboratory Extraction (Preparation) Date		1/6/07	1/6/07	1/6/07							
Laboratory Analysis Date		3/6/07	2/6/07	2/6/07							
Method : E007.1											
Polyaromatic Hydrocarbons (PAH)	**EQL**										
Naphthalene	1	<1	95%	<1							
Acenaphthylene	1	<1	95%	<1							
Acenaphthene	1	<1	101%	<1							
Fluorene	1	<1	103%	<1							
Phenanthrene	1	<1	99%	<1							
Anthracene	1	<1	101%	<1							
Fluoranthene	1	<1	94%	<1							
Pyrene	1	<1	97%	<1							
Benz(a)anthracene	1	<1	92%	<1							
Chrysene	1	<1	104%	<1							
Benzo(b)&(k)fluoranthene	2	<2	96%	<2							
Benzo(a) pyrene	1	<1	98%	<1							
Indeno(1,2,3-c,d)pyrene	1	<1	97%	<1							
Dibenz(a,h)anthracene	1	<1	99%	<1							
Benzo(g,h,i)perylene	1	<1	99%	<1							
Sum of reported PAHs	--	--	--	--							
2-FBP (Surr @ 250ug/l)	--	*91%*	*95%*	*98%*							
TP-d14 (Surr @ 250ug/l)	--	*100%*	*96%*	*104%*							

Results expressed in ug/l unless otherwise specified

Comments:

E007.1: Triple extraction with DCM. Analysis by GC/MS.

Laboratory Identification		**91858**	**91861**	**91866**	**lcs**	**mb**					
Sample Identification		BH6	BH12	BH13	QC	QC					
Depth (m)		0.4-0.5	0.4-0.5	1-1.45	--	--					
Sampling Date recorded on COC		25/5/07	29/5/07	28/5/07	--	--					
Laboratory Extraction (Preparation) Date		1/6/07	1/6/07	1/6/07	1/6/07	1/6/07					
Laboratory Analysis Date		4/6/07	4/6/07	4/6/07	2/6/07	2/6/07					
Method : E008.2											
Phenols by GC/MS	**EQL**										
Phenol	0.5	<0.5	<0.5	<0.5	115%	<0.5					
2-chlorophenol	0.5	<0.5	<0.5	<0.5	115%	<0.5					
2-methylphenol	0.5	<0.5	<0.5	<0.5	113%	<0.5					
3-&4-methylphenol	0.5	<0.5	<0.5	<0.5	102%	<0.5					
2-nitrophenol	0.5	<0.5	<0.5	<0.5	114%	<0.5					
2,4-dimethylphenol	0.5	<0.5	<0.5	<0.5	121%	<0.5					
2,4-dichlorophenol	0.5	<0.5	<0.5	<0.5	113%	<0.5					
4-chloro-3-methylphenol	0.5	<0.5	<0.5	<0.5	129%	<0.5					
2,4,6-trichlorophenol	0.5	<0.5	<0.5	<0.5	127%	<0.5					
2,4,5-trichlorophenol	0.5	<0.5	<0.5	<0.5	107%	<0.5					
Pentachlorophenol	1	<1	<1	<1	61%	<1					
Sum of reported phenols	--	--	--	--	--	--					
2-FP (Surr @ 5mg/kg)	--	*104%*	*91%*	*88%*	*87%*	*114%*					
Phenol-d5 (Surr @ 5mg/kg)	--	*101%*	*93%*	*85%*	*77%*	*99%*					
2,4,6-TBP (Surr @ 5mg/kg)	--	*97%*	*93%*	*89%*	*81%*	*84%*					

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E008.2: 8-10g soil extracted with 20ml DCM/acetone (8:2). Analysis by GC/MS.

Laboratory Identification		**91859**	**91865**	**91867**	**lcs**	**mb**					
Sample Identification		BH6	BH12	BH13	QC	QC					
Depth (m)		1.0-1.5	1-1.45	0.3-0.4	--	--					
Sampling Date recorded on COC		25/5/07	29/5/07	28/5/07	--	--					
Laboratory Extraction (Preparation) Date		1/6/07	1/6/07	1/6/07	1/6/07	1/6/07					
Laboratory Analysis Date		4/6/07	4/6/07	4/6/07	2/6/07	2/6/07					
Method : E013.2											
Organochlorine Pesticides (OC)	**EQL**										
a-BHC	0.05	<0.05	<0.05	<0.05	111%	<0.05					
Hexachlorobenzene	0.05	<0.05	<0.05	<0.05	113%	<0.05					
b-BHC	0.05	<0.05	<0.05	<0.05	112%	<0.05					
g-BHC (Lindane)	0.05	<0.05	<0.05	<0.05	112%	<0.05					
d-BHC	0.05	<0.05	<0.05	<0.05	113%	<0.05					
Heptachlor	0.05	<0.05	<0.05	<0.05	111%	<0.05					
Aldrin	0.05	<0.05	<0.05	<0.05	107%	<0.05					
Heptachlor epoxide	0.05	<0.05	<0.05	<0.05	123%	<0.05					
trans-chlordane	0.05	<0.05	<0.05	<0.05	108%	<0.05					
Endosulfan I	0.05	<0.05	<0.05	<0.05	109%	<0.05					
cis-chlordane	0.05	<0.05	<0.05	<0.05	110%	<0.05					
Dieldrin	0.05	<0.05	<0.05	<0.05	109%	<0.05					
4,4-DDE	0.05	<0.05	<0.05	<0.05	109%	<0.05					
Endrin	0.05	<0.05	<0.05	<0.05	111%	<0.05					
Endosulfan II	0.05	<0.05	<0.05	<0.05	109%	<0.05					
4,4-DDD	0.05	<0.05	<0.05	<0.05	117%	<0.05					
Endosulfan sulphate	0.05	<0.05	<0.05	<0.05	115%	<0.05					
4,4-DDT	0.2	<0.2	<0.2	<0.2	107%	<0.2					
Methoxychlor	0.2	<0.2	<0.2	<0.2	118%	<0.2					
DBC (Surr @ 0.2mg/kg)	--	*107%*	*101%*	*100%*	*113%*	*101%*					

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E013.2: 8-10g soil extracted with 20ml hexane/acetone (1:1). Analysis by GC/dual ECD.

Laboratory Identification		**91859**	**91865**	**91867**	**lcs**	**mb**					
Sample Identification		BH6	BH12	BH13	QC	QC					
Depth (m)		1.0-1.5	1-1.45	0.3-0.4	--	--					
Sampling Date recorded on COC		25/5/07	29/5/07	28/5/07	--	--					
Laboratory Extraction (Preparation) Date		1/6/07	1/6/07	1/6/07	1/6/07	1/6/07					
Laboratory Analysis Date		4/6/07	4/6/07	4/6/07	4/6/07	4/6/07					
Method : E014.2											
Organophosphorus Pesticides (OP)	**EQL**										
Dichlorvos	0.5	<0.5	<0.5	<0.5	117%	<0.5					
Mevinphos (Phosdrin)	0.5	<0.5	<0.5	<0.5	92%	<0.5					
Demeton (total)	1	<1	<1	<1	106%	<1					
Ethoprop	0.5	<0.5	<0.5	<0.5	109%	<0.5					
Monocrotophos	0.5	<0.5	<0.5	<0.5	90%	<0.5					
Phorate	0.5	<0.5	<0.5	<0.5	100%	<0.5					
Dimethoate	0.5	<0.5	<0.5	<0.5	98%	<0.5					
Diazinon	0.5	<0.5	<0.5	<0.5	94%	<0.5					
Disulfoton	0.5	<0.5	<0.5	<0.5	109%	<0.5					
Methyl parathion	0.5	<0.5	<0.5	<0.5	101%	<0.5					
Ronnel	0.5	<0.5	<0.5	<0.5	98%	<0.5					
Fenitrothion	0.5	<0.5	<0.5	<0.5	103%	<0.5					
Malathion	0.5	<0.5	<0.5	<0.5	106%	<0.5					
Chlorpyrifos	0.5	<0.5	<0.5	<0.5	97%	<0.5					
Fenthion	0.5	<0.5	<0.5	<0.5	110%	<0.5					
Parathion	0.5	<0.5	<0.5	<0.5	105%	<0.5					
Stirofos	0.5	<0.5	<0.5	<0.5	110%	<0.5					
Prothiofos	0.5	<0.5	<0.5	<0.5	104%	<0.5					
Azinophos methyl	0.5	<0.5	<0.5	<0.5	106%	<0.5					
Coumaphos	0.5	<0.5	<0.5	<0.5	117%	<0.5					
TPP (Surr @ 2mg/kg)	--	*88%*	*93%*	*102%*	*91%*	*105%*					

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E014.2: 8-10g soil extracted with 20ml hexane/acetone (1:1). Analysis by GC/MSD.

Laboratory Identification		**91859**	**91865**	**91867**	**lcs**	**mb**					
Sample Identification		BH6	BH12	BH13	QC	QC					
Depth (m)		1.0-1.5	1-1.45	0.3-0.4	--	--					
Sampling Date recorded on COC		25/5/07	29/5/07	28/5/07	--	--					
Laboratory Extraction (Preparation) Date		1/6/07	1/6/07	1/6/07	1/6/07	1/6/07					
Laboratory Analysis Date		4/6/07	4/6/07	4/6/07	2/6/07	2/6/07					
Method : E013.2											
Polychlorinated Biphenyls (PCB)	**EQL**										
Arochlor 1016	0.5	<0.5	<0.5	<0.5	--	<0.5					
Arochlor 1232	0.5	<0.5	<0.5	<0.5	--	<0.5					
Arochlor 1242	0.5	<0.5	<0.5	<0.5	--	<0.5					
Arochlor 1248	0.5	<0.5	<0.5	<0.5	119%	<0.5					
Arochlor 1254	0.5	<0.5	<0.5	<0.5	--	<0.5					
Arochlor 1260	0.5	<0.5	<0.5	<0.5	--	<0.5					
Sum of reported PCBs	--	--	--	--	--	--					
DBC (Surr @ 0.2mg/kg)	--	*107%*	*101%*	*100%*	*98%*	*101%*					

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E013.2: 8-10g soil extracted with 20ml hexane/acetone (1:1). Analysis by GC/dual ECD.

Final
Certificate of Analysis

Laboratory Identification		91859	91861	91865	91867	91868	91872	91861d	91861r	91868s	crm
Sample Identification		BH6	BH12	BH12	BH13	BH13	DUP06	QC	QC	QC	QC
Depth (m)		1.0-1.5	0.4-0.5	1-1.45	0.3-0.4	4.5-5	--	--	--	--	--
Sampling Date recorded on COC		25/5/07	29/5/07	29/5/07	28/5/07	28/5/07	28/5/07	--	--	--	--
Laboratory Extraction (Preparation) Date		4/6/07	4/6/07	4/6/07	4/6/07	4/6/07	4/6/07	4/6/07	--	4/6/07	4/6/07
Laboratory Analysis Date		31/12/07	5/6/07	5/6/07	5/6/07	5/6/07	5/6/07	5/6/07	--	5/6/07	4/6/07
Method : E022.2											
Acid extractable metals (M7)	**EQL**										
Arsenic	1	<1	2	4	2	<1	<1	2	0%	77%	122%
Cadmium	0.1	<0.1	0.3	<0.1	0.2	<0.1	<0.1	0.2	40%	99%	108%
Chromium	1	1	2	5	2	<1	<1	2	0%	79%	86%
Copper	2	<2	35	15	25	4	<2	29	19%	75%	87%
Nickel	1	<1	2	9	4	<1	<1	2	0%	80%	87%
Lead	2	4	220	15	91	3	<2	170	26%	106%	119%
Zinc	5	9	140	47	110	8	<5	120	15%	79%	84%

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E022.2: 0.5g digested in nitric/hydrochloric acid. Analysis by ICP-MS.

Laboratory Identification		**lcs**	**mb**								
Sample Identification		QC	QC								
Depth (m)		--	--								
Sampling Date recorded on COC		--	--								
Laboratory Extraction (Preparation) Date		4/6/07	4/6/07								
Laboratory Analysis Date		4/6/07	4/6/07								
Method : E022.2											
Acid extractable metals (M7)	**EQL**										
Arsenic	1	84%	<1								
Cadmium	0.1	111%	<0.1								
Chromium	1	83%	<1								
Copper	2	87%	<2								
Nickel	1	86%	<1								
Lead	2	118%	<2								
Zinc	5	89%	<5								

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E022.2: 0.5g digested in nitric/hydrochloric acid. Analysis by ICP-MS.

Laboratory Identification		**91859**	**91861**	**91865**	**91867**	**91868**	**91872**	**91861d**	**91861r**	**91868s**	**crm**
Sample Identification		BH6	BH12	BH12	BH13	BH13	DUP06	QC	QC	QC	QC
Depth (m)		1.0-1.5	0.4-0.5	1-1.45	0.3-0.4	4.5-5	--	--	--	--	--
Sampling Date recorded on COC		25/5/07	29/5/07	29/5/07	28/5/07	28/5/07	28/5/07	--	--	--	--
Laboratory Extraction (Preparation) Date		4/6/07	4/6/07	4/6/07	4/6/07	4/6/07	4/6/07	4/6/07	--	4/6/07	4/6/07
Laboratory Analysis Date		4/6/07	5/6/07	5/6/07	5/6/07	5/6/07	5/6/07	5/6/07	--	5/6/07	4/6/07
Method : E026.2											
Acid extractable mercury	**EQL**										
Mercury	0.05	<0.05	0.12	<0.05	0.09	<0.05	<0.05	0.11	9%	89%	107%

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E026.2: 0.5g digested with nitric/hydrochloric acid. Analysis by CV-ICP-MS or FIMS.

Laboratory Identification		**lcs**	**mb**								
Sample Identification		QC	QC								
Depth (m)		--	--								
Sampling Date recorded on COC		--	--								
Laboratory Extraction (Preparation) Date		4/6/07	4/6/07								
Laboratory Analysis Date		4/6/07	4/6/07								
Method : E026.2											
Acid extractable mercury	**EQL**										
Mercury	0.05	95%	<0.05								

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E026.2: 0.5g digested with nitric/hydrochloric acid. Analysis by CV-ICP-MS or FIMS.

Laboratory Identification		**91858**	**91859**	**91861**	**91865**	**91866**	**91867**	**91868**	**91872**	**91861d**	**91861r**
Sample Identification		BH6	BH6	BH12	BH12	BH13	BH13	BH13	DUP06	QC	QC
Depth (m)		0.4-0.5	1.0-1.5	0.4-0.5	1-1.45	1-1.45	0.3-0.4	4.5-5	--	--	--
Sampling Date recorded on COC		25/5/07	25/5/07	29/5/07	29/5/07	28/5/07	28/5/07	28/5/07	28/5/07	--	--
Laboratory Extraction (Preparation) Date		1/6/07	1/6/07	1/6/07	1/6/07	1/6/07	1/6/07	1/6/07	1/6/07	1/6/07	--
Laboratory Analysis Date		4/6/07	4/6/07	4/6/07	4/6/07	4/6/07	4/6/07	4/6/07	4/6/07	4/6/07	--
Method : E005.2											
Moisture	**EQL**										
Moisture	--	17	3	20	10	11	21	17	17	19	5%

Results expressed in % w/w unless otherwise specified

Comments:

E005.2: Moisture by gravimetric analysis. Results are in % w/w.

Quality, Service, Support

Report Date : 31/05/2007
Report Time : 6:47:04PM

Sample **Receipt** Notice (SRN) for **E032250**

Client Details		Laboratory Reference Information	
Client Name:	HLA - Envirosciences Pty Limited	**Please have this information ready when contacting Labmark.**	
Client Phone:	02 8484 8999		
Client Fax:	02 8484 8989	**Laboratory Report:**	**E032250**
Contact Name:	Laura O'Hea	**Quotation Number:**	- Not provided, standard prices apply
Contact Email:	lohea@hla-enviro.com.au	**Laboratory Address:**	Unit 1, 8 Leighton Pl. Asquith NSW 2077
Client Address:	PO Box 726 Pymble NSW 2073	**Phone:**	61 2 9476 6533
		Fax:	61 2 9476 8219
Project Name:	Police Site	**Sample Receipt Contact:**	Jakleen El Galada
Project Number:	S4075802	**Email:**	jakleen.galada@labmark.com.au
CoC Number:	- Not provided -	**Reporting Contact:**	Jyothi Lal
Purchase Order:	- Not provided -	**Email:**	jyothi.lal@labmark.com.au
Surcharge:	No surcharge applied (results by 6:30pm on due date)		
Sample Matrix:	SOIL & WATER		
Date Sampled (earliest date):	25/05/2007	**NATA Accreditation:**	13542
Date Samples Received:	30/05/2007	**TGA GMP License:**	185-336 (Sydney)
Date Sample Receipt Notice issued:	31/05/2007	**APVMA License:**	6105 (Sydney)
Date Preliminary Report Due:	06/06/2007	**AQIS Approval:**	NO356 (Sydney)
		AQIS Entry Permit:	200521534 (Sydney)

Reporting Requirements: Electronic Data Download required: No

Sample Condition: COC received with samples. Report number and lab ID's defined on COC.
Samples received in good order .
Samples received with cooling media: Crushed ice .
Samples received chilled.
Security seals not required. Direct Labmark's custody taken .
Sample container & chemical preservation suitable .

Comments: Dup 07 forwarded to ALS.

Holding Times: Date received allows for sufficient time to meet Technical Holding Times.

Preservation: Chemical preservation of samples satisfactory for requested analytes.

Important Notes:

LabMark shall responsibly dispose of spent customer soil and water samples which includes the disintegration of the sample label. A sample disposal fee of $1.00 is applicable on all samples received by the laboratory regardless of whether they have undergone analytical testing. Sample disposal of environmental samples shall be 31 days (water) and 3 months (soil, HN03 preserved samples) after laboratory receipt, unless otherwise requested in writing by the client. Samples requested to be held in non-refrigerated storage shall incur $5.00/ sample/ 3 months. Additional refrigerated storage shall incur $30/ sample/ 3 months. Combination prices apply only if requested. Transfer of report ownership from LabMark to the client shall occur once full and final payment has been settled and verified. All report copies may be retracted where full payment does not occur within the agreed settlement period.

Analysis comments:

Subcontracted Analyses:

Thank you for choosing Labmark to analyse your project samples.
Additional information on www.labmark.com.au

Quality, Service, Support

Report Date : 31/05/2007
Report Time : 6:47:04PM

Sample **Receipt** Notice (SRN) for **E032250**

The table below represents LabMark's understanding and interpretation of the customer supplied sample COC request. Please confirm that your COC request has been entered correctly. Due to THT and TAT requirements, testing shall commence immediately as per this table, unless the customer intervenes with a correction prior to testing.

GRID REVIEW TABLE

No.	Date	Depth	Client Sample ID	Requested Analysis																			
				BTEX by P&T	BTEX by P&T	Acid extractable mercury	HOLD ON HOLD	Acid extractable metals (M7)	Moisture	Organochlorine Pesticides (OC)	Organophosphorus Pesticides (OP)	Polyaromatic Hydrocarbons (PAH)	Polyaromatic Hydrocarbons (PAH)	Polychlorinated Biphenyls (PCB)	Phenols by GC/MS	PREP Not Reported	PREP Not Reported	Petroleum Hydrocarbons (TPH)	Petroleum Hydrocarbons (TPH)	Volatile TPH by P&T (vTPH)	Volatile TPH by P&T (vTPH)		
91857	25/05	3.0-3.45	BH6				●																
91858	25/05	0.4-0.5	BH6						●						●	●							
91859	25/05	1.0-1.5	BH6	●		●		●	●	●	●	●		●		●		●		●			
91860	25/05	12.45	BH6				●																
91861	29/05	0.4-0.5	BH12	●		●		●	●			●			●	●		●		●			
91862	29/05	3-3.45	BH12				●																
91863	29/05	4.5-5	BH12				●																
91864	29/05	6-6.45	BH12				●																
91865	29/05	1-1.45	BH12	●		●		●	●	●	●	●		●		●		●		●			
91866	28/05	1-1.45	BH13						●						●	●							
91867	28/05	0.3-0.4	BH13	●		●		●	●	●	●	●		●		●		●		●			
91868	28/05	4.5-5	BH13	●		●		●	●			●				●		●		●			
91869	28/05	3-3.45	BH13				●																
91870	28/05	6-6.5	BH13				●																
91871	29/05		R2		●								●				●		●		●		
91872	28/05		DUP06	●		●		●	●			●				●		●		●			
			Totals:	6	1	6	7	6	8	3	3	6	1	3	3	8	1	6	1	6	1		

Thank you for choosing Labmark to analyse your project samples.
Additional information on www.labmark.com.au

LabMark

Quality, Service, Support

Report Date : 31/05/2007
Report Time : 6:47:04PM

Sample **Receipt** Notice (SRN) for **E032250**

No.	Date	Depth	Client Sample ID	Requested Analysis: M8 - M7-T_S																			
91859	25/05	1.0-1.5	BH6	●																			
91861	29/05	0.4-0.5	BH12	●																			
91865	29/05	1-1.45	BH12	●																			
91867	28/05	0.3-0.4	BH13	●																			
91868	28/05	4.5-5	BH13	●																			
91872	28/05		DUP06	●																			
			Totals:	6																			

Thank you for choosing Labmark to analyse your project samples.
Additional information on www.labmark.com.au

CUSTOMER CENTRIC - ANALYTICAL CHEMISTS

Accredited for compliance with ISO/IEC 17025. The results of tests, calibrations and/or measurements included in this document are traceable to Australian/national standards. NATA is a signatory to the APLAC mutual recognition arrangement for the mutual recognition of the equivalence of testing, calibration and inspection reports.

AQIS
AUSTRALIAN QUARANTINE AND INSPECTION SERVICE
SYDNEY License No. N0356.

Quarantine Approved Premises criteria 5.1 for quarantine containment level 1 (QCI) facilities. Class five criteria cover premises utilised for research, analysis and testing of biological material, soil, animal, plant and human products.

FINAL CERTIFICATE OF ANALYSIS - ENVIRONMENTAL DIVISION

Laboratory Report No:	E032494	Cover Page 1 of 4 plus Sample Results
Client Name:	HLA - Envirosciences Pty Limited	
Client Reference:	Green Square	
Contact Name:	Brian Tripolone	
Chain of Custody No:	na	Date Received: 14/06/2007
Sample Matrix:	WATER	Date Reported: 26/06/2007

This Final Certificate of Analysis consists of sample results, DQI's, method descriptions, laboratory definitions, and internationally recognised NATA accreditation and endorsement. The DQO compliance relates specifically to QA/QC results as performed as part of the sample analysis, and may provide an indication of sample result quality. Transfer of report ownership from Labmark to the client shall only occur once full & final payment has been settled and verified. All report copies may be retracted where full payment has not occured within the agreed settlement period.

QUALITY ASSURANCE CRITERIA

Accuracy:	matrix spike:	1 in first 5-20, then 1 every 20 samples
	lcs, crm, method:	1 per analytical batch
	surrogate spike:	addition per target organic method
Precision:	laboratory duplicate:	1 in first 5-10, then 1 every 10 samples
	laboratory triplicate:	re-extracted & reported when duplicate RPD values exceed acceptance criteria
Holding Times:	soils, waters:	Refer to LabMark Preservation & THT table VOC's 14 days water / soil VAC's 7 days water or 14 days acidified VAC's 14 days soil SVOC's 7 days water, 14 days soil Pesticides 7 days water, 14 days soil Metals 6 months general elements Mercury 28 days
Confirmation:	target organic analysis:	GC/MS, or confirmatory column
Sensitivity:	EQL:	Typically 2-5 x Method Detection Limit (MDL)

QUALITY CONTROL GLOBAL ACCEPTANCE CRITERIA (GAC)

Accuracy:	spike, lcs, crm surrogate:	general analytes 70% - 130% recovery phenol analytes 50% - 130% recovery organophosphorous pesticide analytes 60% - 130% recovery phenoxy acid herbicides 50% - 130% recovery
	anion/cation bal:	+/- 10% (0-3 meq/l), +/- 5% (>3 meq/l)
Precision:	method blank:	not detected >95% of the reported EQL
	duplicate lab RPD (metals):	0-30% (>10xEQL), 0-75% (5-10xEQL) 0-100% (<5xEQL)
	duplicate lab RPD:	0-50% (>10xEQL), 0-75% (5-10xEQL) 0-100% (<5xEQL)

QUALITY CONTROL ANALYTE SPECIFIC ACCEPTANCE CRITERIA (ASAC)

Accuracy:	spike, lcs, crm surrogate:	analyte specific recovery data <3xsd of historical mean
Uncertainty:	spike, lcs:	measurement calculated from historical analyte specific control charts

RESULT ANNOTATION

Data Quality Objective	s:	matrix spike recovery	p:	pending	bcs:	batch specific lcs
Data Quality Indicator	d:	laboratory duplicate	lcs:	laboratory control sample	bmb:	batch specific mb
Estimated Quantitation Limit	t:	laboratory triplicate	crm:	certified reference material		
not applicable	r:	RPD relative % difference	mb:	method blank		

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NEPC GUIDELINE COMPLIANCE - DQO

1. GENERAL

A. Results relate specifically to samples as received. Sample results are not corrected for matrix spike, lcs, or surrogate recovery data.

B. EQL's are matrix dependant and may be increased due to sample dilution or matrix interference.

C. Laboratory QA/QC samples are specific to this project.

D. Inter-laboratory proficiency results are available upon request. NATA accreditation details available at www.nata.asn.au.

E. VOC spikes & surrogates added to samples during extraction, SVOC spikes & surrogates added prior to extraction.

F. Recovery data outside GAC limits shall be investigated and compared to ASAC (historical mean +/- 3sd). If recovery data <20%, then the relevant results for that compound are considered not reliable.

G. Recovery data (ms, surrogate, crm, lcs) outside ASAC limits shall initiate an investigative action. Anomolous QC data is examined in conjunction with other QC samples and a final decision whether to accept or reject results is provided by the professional judgement of the senior analyst. The USEPA-CLP National Functional Guidelines are referred to for specific recommendations.

H. Extraction (preparation) date refers to the date that sample preparation was initiated. Note that certain methods not requiring sample preparation (eg. VOCs in water, etc) may report a common extraction and analysis date.

I. LabMark shall maintain an official copy of this Certificate of Analysis for all tracable reference purposes.

2. CHAIN OF CUSTODY (COC) & SAMPLE RECEIPT NOTICE (SRN) REQUIREMENTS

A. SRN issued to client upon sample receipt & login verification.

B. Preservation & sampling date details specified on COC and SRN, unless noted.

C. Sample Integrity & Validated Time of Sample Receipt (VTSR) Holding Times verified (preservation may extend holding time, refer to preservation chart).

3. NATA ACCREDITED METHODS

A. NATA accreditation held for each in-house method and sample matrix type reported, unless noted below (Refer to subcontracted test reports for NATA accreditation status).

B. NATA accredited in-house laboratory methods are referenced from NEPC, ASTM, modified USEPA / APHA documents. Corporate Accreditation No. 13542.

C. Subcontracted analyses: Refer to Sample Receipt Notice and additional DQO comments.

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4. QA/QC FREQUENCY COMPLIANCE TABLE SPECIFIC TO THIS REPORT

Matrix: **WATER**

Page:	Method:	Totals:	#d	%d-ratio	#t	#s	%s-ratio
1	BTEX by P&T	9	1	11%	0	1	11%
1	Volatile TPH by P&T (vTPH)	9	1	11%	0	1	11%
3	Petroleum Hydrocarbons (TPH)	7	1	14%	0	1	14%
5	Polychlorinated Biphenyls (PCB)	6	1	17%	0	1	17%
7	Semivolatile Organic Compounds (SVOC)	6	1	17%	0	1	17%
19	Filtered metals (M7)	7	1	14%	0	1	14%
21	Filtered mercury	7	1	14%	0	1	14%
22	Total alkalinity	6	1	17%	0	1	17%
23	Chloride	6	1	17%	0	1	17%
24	Fluoride	6	1	17%	0	1	17%
25	Sulphate	6	1	17%	0	1	17%
26	Nitrite as N	6	1	17%	0	1	17%
26	Nitrate as N	6	1	17%	0	1	17%
28	Ammonia as N	6	1	17%	0	1	17%
29	Major cations	6	1	17%	0	1	17%

GLOSSARY:

#d	number of discrete duplicate extractions/analyses performed.
%d-ratio	NEPC guideline for laboratory duplicates is 1 in 10 samples (min 10%).
#t	number of triplicate extractions/analyses performed.
#s	number of spiked samples analysed.
%s-ratio	USEPA guideline for laboratory matrix spikes is 1 in 20 samples (min 5%).

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5. ADDITIONAL COMMENTS SPECIFIC TO THIS REPORT

A. All tests were conducted by LabMark Environmental Sydney, NATA accreditation No. 13542, Corporate Site No. 13535, unless indicated below.
B. SVOC (water), Matrix spike sample 95179s resulted 44%-129% recovery.
C. SVOC (water), 2-FP Surrogate recovery for all samples 38-62%, corresponding lcs resulted 58% and 63%, method blank resulted 58% and 60%.
D. SVOC (water), Phenol-d5 Surrogate recovery range 25%-42%, corresponding lcs 41%, corresponding method blank resulted 42% and 38%
E. SVOC (water), lcs recovery range 42-134%.
F. Refer to LabMark historical control chart recovery range data. QA/QC (SVOC) results reported within 3sd of the historical analyte specific mean results, and therefore considered acceptable for laboratory release.
G. Report reissued on 22/06/07 with ammonia results, refer to client instructions dated 21/06/07.
H. Report reissued on 26/06/07 with amended sample names for Lab # 94766, 94767 .
Client instructions received.

Laboratory QA/QC data shall relate specifically to this report, and may provide an indication of site specific sample result quality. LabMark DOES NOT report NON-RELEVANT BATCH QA/QC data. Acceptance of this self assessment certificate does not preclude any requirement for a QA/QC review by a accredited contaminated site EPA auditor, when and wherever necessary. Laboratory QA/QC self assessment references available upon request.

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HISTORICAL CONTROL CHART DATA - QA/QC

Sydney

Analyte mean and standard deviation

SVOC_W

For the period: 01/01/06 12:00:00 AM to 30/12/06 11:59:59 PM

SPIKES

Analyte Name	n	Mean	1 SD	Range	2 SD	Range	3 SD	Range
1,2,4,5-tetrachlorobenzene	18	85	15	70 to 100	30	55 to 115	45	40 to 130
1,2,4-trichlorobenzene	18	83	13	70 to 96	26	57 to 109	39	44 to 122
1,2-dichlorobenzene	18	82	14	68 to 96	28	54 to 110	42	40 to 124
1,3-dichlorobenzene	18	81	13	68 to 94	26	55 to 107	39	42 to 120
1,4-dichlorobenzene	18	81	15	66 to 96	30	51 to 111	45	36 to 126
1,4-dinitrobenzene	18	87	15	72 to 102	30	57 to 117	45	42 to 132
1-naphthylamine	14	78	30	48 to 108	60	18 to 138	90	0 to 168
2,3,4,6-tetrachlorophenol	18	81	21	60 to 102	42	39 to 123	63	18 to 144
2,4,5-trichlorophenol	18	90	11	79 to 101	22	68 to 112	33	57 to 123
2,4,6-trichlorophenol	18	91	14	77 to 105	28	63 to 119	42	49 to 133
2,4-dichlorophenol	17	85	14	71 to 99	28	57 to 113	42	43 to 127
2,4-dimethylphenol	17	76	22	54 to 98	44	32 to 120	66	10 to 142
2,4-dinitrotoluene	18	88	15	73 to 103	30	58 to 118	45	43 to 133
2,6-dichlorophenol	18	87	15	72 to 102	30	57 to 117	45	42 to 132
2,6-dinitrotoluene	17	91	13	78 to 104	26	65 to 117	39	52 to 130
2-(acetylamino) fluorene	18	95	16	79 to 111	32	63 to 127	48	47 to 143
2-chloronaphthalene	18	90	14	76 to 104	28	62 to 118	42	48 to 132
2-chlorophenol	18	87	16	71 to 103	32	55 to 119	48	39 to 135
2-FBP (Surr @ 25ug/l)	18	87	16	71 to 103	32	55 to 119	48	39 to 135
2-FP (Surr @ 25ug/l)	18	50	8	42 to 58	16	34 to 66	24	26 to 74
2-methylnaphthalene	17	87	13	74 to 100	26	61 to 113	39	48 to 126
2-methylphenol	17	74	17	57 to 91	34	40 to 108	51	23 to 125
2-naphthylamine	13	82	26	56 to 108	52	30 to 134	78	4 to 160
2-nitroaniline	17	88	12	76 to 100	24	64 to 112	36	52 to 124
2-nitrophenol	18	85	21	64 to 106	42	43 to 127	63	22 to 148
3-&4-methylphenol	17	61	15	46 to 76	30	31 to 91	45	16 to 106
3-methylcholanthrene	17	96	15	81 to 111	30	66 to 126	45	51 to 141
3-nitroaniline	18	78	15	63 to 93	30	48 to 108	45	33 to 123
4,4-DDD	18	105	17	88 to 122	34	71 to 139	51	54 to 156
4,4-DDE	18	100	13	87 to 113	26	74 to 126	39	61 to 139
4,4-DDT	16	88	24	64 to 112	48	40 to 136	72	16 to 160
4-(dimethylamino) azobenzene	18	86	16	70 to 102	32	54 to 118	48	38 to 134
4-aminobiphenyl	18	94	14	80 to 108	28	66 to 122	42	52 to 136
4-bromophenyl phenyl ether	18	94	9	85 to 103	18	76 to 112	27	67 to 121
4-chloro-3-methylphenol	18	89	15	74 to 104	30	59 to 119	45	44 to 134
4-chloroaniline	18	75	18	57 to 93	36	39 to 111	54	21 to 129
4-chlorophenyl phenyl ether	18	94	13	81 to 107	26	68 to 120	39	55 to 133
4-nitroaniline	18	81	17	64 to 98	34	47 to 115	51	30 to 132
5-nitro-o-toluidine	17	93	13	80 to 106	26	67 to 119	39	54 to 132
7,12-dimethylbenz(a)anthracene	18	82	17	65 to 99	34	48 to 116	51	31 to 133
a-BHC	18	100	12	88 to 112	24	76 to 124	36	64 to 136
Acenaphthene	17	92	13	79 to 105	26	66 to 118	39	53 to 131
Acenaphthylene	17	91	13	78 to 104	26	65 to 117	39	52 to 130
Acetophenone	17	86	13	73 to 99	26	60 to 112	39	47 to 125
Aldrin	18	96	13	83 to 109	26	70 to 122	39	57 to 135

Aniline	**17**	**58**	22	36 to 80	44	14 to 102	66	0 to 124
Anthracene	**17**	**96**	9	87 to 105	18	78 to 114	27	69 to 123
Azinophos methyl	**18**	**84**	15	69 to 99	30	54 to 114	45	39 to 129
Azobenzene	**18**	**96**	14	82 to 110	28	68 to 124	42	54 to 138
b-BHC	**17**	**96**	16	80 to 112	32	64 to 128	48	48 to 144
Benz(a)anthracene	**18**	**98**	12	86 to 110	24	74 to 122	36	62 to 134
Benzo(a) pyrene	**18**	**98**	16	82 to 114	32	66 to 130	48	50 to 146
Benzo(b)&(k)fluoranthene	**18**	**97**	16	81 to 113	32	65 to 129	48	49 to 145
Benzo(g,h,i)perylene	**18**	**98**	17	81 to 115	34	64 to 132	51	47 to 149
Benzyl alcohol	**18**	**66**	21	45 to 87	42	24 to 108	63	3 to 129
Bis(2-chloroethoxy) methane	**18**	**93**	15	78 to 108	30	63 to 123	45	48 to 138
Bis(2-chloroethyl)ether	**18**	**89**	21	68 to 110	42	47 to 131	63	26 to 152
Bis(2-chloroisopropyl) ether	**18**	**89**	16	73 to 105	32	57 to 121	48	41 to 137
Bis(2-ethylhexyl) phthalate	**17**	**111**	13	98 to 124	26	85 to 137	39	72 to 150
Butyl benzyl phthalate	**18**	**100**	11	89 to 111	22	78 to 122	33	67 to 133
Carbazole	**17**	**100**	10	90 to 110	20	80 to 120	30	70 to 130
Chlorpyrifos	**18**	**97**	12	85 to 109	24	73 to 121	36	61 to 133
Chrysene	**18**	**100**	13	87 to 113	26	74 to 126	39	61 to 139
cis-chlordane	**18**	**99**	14	85 to 113	28	71 to 127	42	57 to 141
Coumaphos	**18**	**92**	15	77 to 107	30	62 to 122	45	47 to 137
d-BHC	**18**	**100**	12	88 to 112	24	76 to 124	36	64 to 136
Demeton-O	**18**	**89**	15	74 to 104	30	59 to 119	45	44 to 134
Demeton-S	**18**	**90**	15	75 to 105	30	60 to 120	45	45 to 135
Di-n-butyl phthalate	**17**	**117**	11	106 to 128	22	95 to 139	33	84 to 150
Di-n-octyl phthalate	**18**	**100**	16	84 to 116	32	68 to 132	48	52 to 148
Diazinon	**18**	**93**	13	80 to 106	26	67 to 119	39	54 to 132
Dibenz(a,h)anthracene	**18**	**96**	17	79 to 113	34	62 to 130	51	45 to 147
Dibenzofuran	**17**	**92**	13	79 to 105	26	66 to 118	39	53 to 131
Dichlorvos	**17**	**97**	15	82 to 112	30	67 to 127	45	52 to 142
Dieldrin	**18**	**103**	12	91 to 115	24	79 to 127	36	67 to 139
Diethylphthalate	**18**	**100**	14	86 to 114	28	72 to 128	42	58 to 142
Dimethoate	**18**	**85**	15	70 to 100	30	55 to 115	45	40 to 130
Dimethyl phthalate	**17**	**98**	14	84 to 112	28	70 to 126	42	56 to 140
Diphenylamine	**18**	**95**	13	82 to 108	26	69 to 121	39	56 to 134
Disulfoton	**18**	**93**	14	79 to 107	28	65 to 121	42	51 to 135
Endosulfan I	**18**	**103**	13	90 to 116	26	77 to 129	39	64 to 142
Endosulfan II	**18**	**105**	13	92 to 118	26	79 to 131	39	66 to 144
Endosulfan sulphate	**18**	**103**	14	89 to 117	28	75 to 131	42	61 to 145
Endrin	**17**	**95**	21	74 to 116	42	53 to 137	63	32 to 158
Endrin aldehyde	**15**	**90**	27	63 to 117	54	36 to 144	81	9 to 171
Endrin ketone	**18**	**92**	20	72 to 112	40	52 to 132	60	32 to 152
EPN	**18**	**86**	14	72 to 100	28	58 to 114	42	44 to 128
Ethoprop	**18**	**93**	17	76 to 110	34	59 to 127	51	42 to 144
Ethyl methanesulfonate	**18**	**86**	19	67 to 105	38	48 to 124	57	29 to 143
Fenitrothion	**18**	**88**	11	77 to 99	22	66 to 110	33	55 to 121
Fensulfothion	**16**	**85**	20	65 to 105	40	45 to 125	60	25 to 145
Fenthion	**18**	**96**	13	83 to 109	26	70 to 122	39	57 to 135
Fluoranthene	**17**	**98**	11	87 to 109	22	76 to 120	33	65 to 131
Fluorene	**17**	**94**	12	82 to 106	24	70 to 118	36	58 to 130
g-BHC (Lindane)	**17**	**99**	17	82 to 116	34	65 to 133	51	48 to 150
Heptachlor	**18**	**97**	18	79 to 115	36	61 to 133	54	43 to 151
Heptachlor epoxide	**18**	**101**	12	89 to 113	24	77 to 125	36	65 to 137
Hexachlorobenzene	**17**	**89**	17	72 to 106	34	55 to 123	51	38 to 140

Hexachlorobutadiene	**18**	**78**	12	66 to 90	24	54 to 102	36	42 to 114
Hexachlorocyclopentadiene	**13**	**59**	28	31 to 87	56	3 to 115	84	0 to 143
Hexachloroethane	**18**	**76**	13	63 to 89	26	50 to 102	39	37 to 115
Hexachloropropene	**18**	**70**	17	53 to 87	34	36 to 104	51	19 to 121
Indeno(1,2,3-c,d)pyrene	**18**	**97**	16	81 to 113	32	65 to 129	48	49 to 145
Isophorone	**18**	**92**	20	72 to 112	40	52 to 132	60	32 to 152
Isosafrole	**17**	**88**	12	76 to 100	24	64 to 112	36	52 to 124
Malathion	**17**	**94**	14	80 to 108	28	66 to 122	42	52 to 136
Methoxychlor	**16**	**86**	25	61 to 111	50	36 to 136	75	11 to 161
Methyl methanesulfonate	**18**	**52**	11	41 to 63	22	30 to 74	33	19 to 85
Methyl parathion	**18**	**84**	13	71 to 97	26	58 to 110	39	45 to 123
Mevinphos (Phosdrin)	**18**	**93**	17	76 to 110	34	59 to 127	51	42 to 144
N-nitrosodi-n-butylamine	**17**	**92**	15	77 to 107	30	62 to 122	45	47 to 137
N-nitrosodi-n-propylamine	**17**	**85**	24	61 to 109	48	37 to 133	72	13 to 157
N-nitrosodiethylamine	**18**	**89**	22	67 to 111	44	45 to 133	66	23 to 155
N-nitrosomorpholine	**18**	**65**	17	48 to 82	34	31 to 99	51	14 to 116
N-nitrosopiperidine	**18**	**88**	20	68 to 108	40	48 to 128	60	28 to 148
N-nitrosopyrrolidine	**17**	**79**	19	60 to 98	38	41 to 117	57	22 to 136
Naled (Dibrom)	**17**	**76**	29	47 to 105	58	18 to 134	87	0 to 163
Naphthalene	**17**	**90**	15	75 to 105	30	60 to 120	45	45 to 135
NB-d5 (Surr @ 25ug/l)	**18**	**87**	16	71 to 103	32	55 to 119	48	39 to 135
Nitrobenzene	**17**	**91**	13	78 to 104	26	65 to 117	39	52 to 130
o-toluidine	**17**	**71**	23	48 to 94	46	25 to 117	69	2 to 140
Parathion	**18**	**90**	11	79 to 101	22	68 to 112	33	57 to 123
Pentachlorobenzene	**18**	**90**	13	77 to 103	26	64 to 116	39	51 to 129
Pentachloroethane	**18**	**78**	18	60 to 96	36	42 to 114	54	24 to 132
Pentachloronitrobenzene	**18**	**92**	12	80 to 104	24	68 to 116	36	56 to 128
Pentachlorophenol	**16**	**73**	28	45 to 101	56	17 to 129	84	0 to 157
Phenacetin	**18**	**88**	15	73 to 103	30	58 to 118	45	43 to 133
Phenanthrene	**17**	**97**	9	88 to 106	18	79 to 115	27	70 to 124
Phenol	**16**	**43**	14	29 to 57	28	15 to 71	42	1 to 85
Phenol-d5 (Surr @ 25ug/l)	**18**	**35**	7	28 to 42	14	21 to 49	21	14 to 56
Phorate	**18**	**94**	17	77 to 111	34	60 to 128	51	43 to 145
Profenofos	**18**	**93**	14	79 to 107	28	65 to 121	42	51 to 135
Prothiofos	**18**	**93**	13	80 to 106	26	67 to 119	39	54 to 132
Pyrene	**17**	**100**	13	87 to 113	26	74 to 126	39	61 to 139
Ronnel	**18**	**96**	13	83 to 109	26	70 to 122	39	57 to 135
Safrole	**18**	**87**	16	71 to 103	32	55 to 119	48	39 to 135
Stirophos	**18**	**93**	15	78 to 108	30	63 to 123	45	48 to 138
Sulfotepp	**18**	**96**	16	80 to 112	32	64 to 128	48	48 to 144
TP-d14 (Surr @ 25ug/l)	**18**	**102**	13	89 to 115	26	76 to 128	39	63 to 141
trans-chlordane	**18**	**99**	13	86 to 112	26	73 to 125	39	60 to 138
Trichloronate	**18**	**95**	13	82 to 108	26	69 to 121	39	56 to 134

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Analyte Name	**n**	**Mean**	1 SD	Range	2 SD	Range	3 SD	Range
1,2,4,5-tetrachlorobenzene	**52**	**82**	14	68 to 96	28	54 to 110	42	40 to 124
1,2,4-trichlorobenzene	**52**	**82**	11	71 to 93	22	60 to 104	33	49 to 115
1,2-dichlorobenzene	**52**	**80**	10	70 to 90	20	60 to 100	30	50 to 110
1,3-dichlorobenzene	**52**	**78**	11	67 to 89	22	56 to 100	33	45 to 111
1,4-dichlorobenzene	**52**	**82**	12	70 to 94	24	58 to 106	36	46 to 118
1,4-dinitrobenzene	**52**	**86**	14	72 to 100	28	58 to 114	42	44 to 128
1-naphthylamine	**52**	**109**	19	90 to 128	38	71 to 147	57	52 to 166
2,3,4,6-tetrachlorophenol	**52**	**73**	17	56 to 90	34	39 to 107	51	22 to 124

2,4,5-trichlorophenol	**52**	**90**	15	75 to 105	30	60 to 120	45	45 to 135
2,4,6-TBP (Surr @ 25ug/l)	**1**	**94**		to		to		to
2,4,6-trichlorophenol	**52**	**87**	12	75 to 99	24	63 to 111	36	51 to 123
2,4-dichlorophenol	**52**	**90**	11	79 to 101	22	68 to 112	33	57 to 123
2,4-dimethylphenol	**52**	**84**	14	70 to 98	28	56 to 112	42	42 to 126
2,4-dinitrotoluene	**52**	**85**	12	73 to 97	24	61 to 109	36	49 to 121
2,6-dichlorophenol	**52**	**89**	12	77 to 101	24	65 to 113	36	53 to 125
2,6-dinitrotoluene	**52**	**91**	12	79 to 103	24	67 to 115	36	55 to 127
2-(acetylamino) fluorene	**52**	**85**	18	67 to 103	36	49 to 121	54	31 to 139
2-chloronaphthalene	**52**	**90**	9	81 to 99	18	72 to 108	27	63 to 117
2-chlorophenol	**52**	**86**	10	76 to 96	20	66 to 106	30	56 to 116
2-FBP (Surr @ 25ug/l)	**53**	**87**	11	76 to 98	22	65 to 109	33	54 to 120
2-FP (Surr @ 25ug/l)	**53**	**58**	15	43 to 73	30	28 to 88	45	13 to 103
2-methylnaphthalene	**52**	**89**	9	80 to 98	18	71 to 107	27	62 to 116
2-methylphenol	**52**	**78**	10	68 to 88	20	58 to 98	30	48 to 108
2-naphthylamine	**51**	**107**	17	90 to 124	34	73 to 141	51	56 to 158
2-nitroaniline	**52**	**89**	12	77 to 101	24	65 to 113	36	53 to 125
2-nitrophenol	**52**	**84**	15	69 to 99	30	54 to 114	45	39 to 129
3-&4-methylphenol	**52**	**71**	12	59 to 83	24	47 to 95	36	35 to 107
3-methylcholanthrene	**52**	**96**	14	82 to 110	28	68 to 124	42	54 to 138
3-nitroaniline	**52**	**89**	15	74 to 104	30	59 to 119	45	44 to 134
4,4-DDD	**55**	**100**	13	87 to 113	26	74 to 126	39	61 to 139
4,4-DDE	**55**	**100**	11	89 to 111	22	78 to 122	33	67 to 133
4,4-DDT	**55**	**89**	21	68 to 110	42	47 to 131	63	26 to 152
4-(dimethylamino) azobenzene	**52**	**91**	12	79 to 103	24	67 to 115	36	55 to 127
4-aminobiphenyl	**52**	**96**	12	84 to 108	24	72 to 120	36	60 to 132
4-bromophenyl phenyl ether	**52**	**95**	10	85 to 105	20	75 to 115	30	65 to 125
4-chloro-3-methylphenol	**52**	**90**	11	79 to 101	22	68 to 112	33	57 to 123
4-chloroaniline	**52**	**97**	18	79 to 115	36	61 to 133	54	43 to 151
4-chlorophenyl phenyl ether	**52**	**95**	10	85 to 105	20	75 to 115	30	65 to 125
4-nitroaniline	**52**	**93**	18	75 to 111	36	57 to 129	54	39 to 147
5-nitro-o-toluidine	**52**	**93**	9	84 to 102	18	75 to 111	27	66 to 120
7,12-dimethylbenz(a)anthracene	**52**	**87**	19	68 to 106	38	49 to 125	57	30 to 144
a-BHC	**55**	**100**	13	87 to 113	26	74 to 126	39	61 to 139
Acenaphthene	**52**	**93**	9	84 to 102	18	75 to 111	27	66 to 120
Acenaphthylene	**52**	**93**	11	82 to 104	22	71 to 115	33	60 to 126
Acetophenone	**52**	**89**	13	76 to 102	26	63 to 115	39	50 to 128
Aldrin	**55**	**94**	13	81 to 107	26	68 to 120	39	55 to 133
Aniline	**52**	**64**	18	46 to 82	36	28 to 100	54	10 to 118
Anthracene	**52**	**97**	10	87 to 107	20	77 to 117	30	67 to 127
Azinophos methyl	**52**	**82**	24	58 to 106	48	34 to 130	72	10 to 154
Azobenzene	**52**	**97**	12	85 to 109	24	73 to 121	36	61 to 133
b-BHC	**55**	**95**	14	81 to 109	28	67 to 123	42	53 to 137
Benz(a)anthracene	**52**	**98**	11	87 to 109	22	76 to 120	33	65 to 131
Benzo(a) pyrene	**52**	**98**	13	85 to 111	26	72 to 124	39	59 to 137
Benzo(b)&(k)fluoranthene	**52**	**101**	14	87 to 115	28	73 to 129	42	59 to 143
Benzo(g,h,i)perylene	**52**	**98**	13	85 to 111	26	72 to 124	39	59 to 137
Benzyl alcohol	**52**	**71**	16	55 to 87	32	39 to 103	48	23 to 119
Bis(2-chloroethoxy) methane	**52**	**93**	11	82 to 104	22	71 to 115	33	60 to 126
Bis(2-chloroethyl)ether	**52**	**87**	18	69 to 105	36	51 to 123	54	33 to 141
Bis(2-chloroisopropyl) ether	**52**	**92**	10	82 to 102	20	72 to 112	30	62 to 122
Bis(2-ethylhexyl) phthalate	**52**	**107**	15	92 to 122	30	77 to 137	45	62 to 152
Butyl benzyl phthalate	**52**	**99**	12	87 to 111	24	75 to 123	36	63 to 135

Carbazole	**52**	**99**	10	89 to 109	20	79 to 119	30	69 to 129
Chlorpyrifos	**52**	**96**	12	84 to 108	24	72 to 120	36	60 to 132
Chrysene	**52**	**98**	12	86 to 110	24	74 to 122	36	62 to 134
cis-chlordane	**55**	**95**	11	84 to 106	22	73 to 117	33	62 to 128
Coumaphos	**52**	**90**	17	73 to 107	34	56 to 124	51	39 to 141
d-BHC	**55**	**97**	13	84 to 110	26	71 to 123	39	58 to 136
Demeton-O	**52**	**83**	15	68 to 98	30	53 to 113	45	38 to 128
Demeton-S	**52**	**92**	13	79 to 105	26	66 to 118	39	53 to 131
Di-n-butyl phthalate	**52**	**108**	12	96 to 120	24	84 to 132	36	72 to 144
Di-n-octyl phthalate	**52**	**95**	12	83 to 107	24	71 to 119	36	59 to 131
Diazinon	**52**	**97**	11	86 to 108	22	75 to 119	33	64 to 130
Dibenz(a,h)anthracene	**52**	**97**	14	83 to 111	28	69 to 125	42	55 to 139
Dibenzofuran	**52**	**93**	9	84 to 102	18	75 to 111	27	66 to 120
Dichlorvos	**52**	**97**	16	81 to 113	32	65 to 129	48	49 to 145
Dieldrin	**55**	**100**	13	87 to 113	26	74 to 126	39	61 to 139
Diethylphthalate	**52**	**101**	11	90 to 112	22	79 to 123	33	68 to 134
Dimethoate	**52**	**83**	15	68 to 98	30	53 to 113	45	38 to 128
Dimethyl phthalate	**52**	**100**	11	89 to 111	22	78 to 122	33	67 to 133
Diphenylamine	**52**	**95**	12	83 to 107	24	71 to 119	36	59 to 131
Disulfoton	**52**	**92**	11	81 to 103	22	70 to 114	33	59 to 125
Endosulfan I	**55**	**99**	13	86 to 112	26	73 to 125	39	60 to 138
Endosulfan II	**55**	**100**	12	88 to 112	24	76 to 124	36	64 to 136
Endosulfan sulphate	**55**	**95**	13	82 to 108	26	69 to 121	39	56 to 134
Endrin	**55**	**97**	14	83 to 111	28	69 to 125	42	55 to 139
Endrin aldehyde	**55**	**99**	16	83 to 115	32	67 to 131	48	51 to 147
Endrin ketone	**55**	**93**	18	75 to 111	36	57 to 129	54	39 to 147
EPN	**52**	**84**	15	69 to 99	30	54 to 114	45	39 to 129
Ethoprop	**52**	**95**	14	81 to 109	28	67 to 123	42	53 to 137
Ethyl methanesulfonate	**52**	**85**	16	69 to 101	32	53 to 117	48	37 to 133
Fenitrothion	**52**	**85**	13	72 to 98	26	59 to 111	39	46 to 124
Fensulfothion	**52**	**73**	22	51 to 95	44	29 to 117	66	7 to 139
Fenthion	**52**	**95**	11	84 to 106	22	73 to 117	33	62 to 128
Fluoranthene	**52**	**100**	10	90 to 110	20	80 to 120	30	70 to 130
Fluorene	**52**	**94**	10	84 to 104	20	74 to 114	30	64 to 124
g-BHC (Lindane)	**55**	**97**	14	83 to 111	28	69 to 125	42	55 to 139
Heptachlor	**55**	**94**	16	78 to 110	32	62 to 126	48	46 to 142
Heptachlor epoxide	**55**	**96**	11	85 to 107	22	74 to 118	33	63 to 129
Hexachlorobenzene	**55**	**87**	15	72 to 102	30	57 to 117	45	42 to 132
Hexachlorobutadiene	**52**	**75**	11	64 to 86	22	53 to 97	33	42 to 108
Hexachlorocyclopentadiene	**52**	**57**	26	31 to 83	52	5 to 109	78	0 to 135
Hexachloroethane	**52**	**73**	10	63 to 83	20	53 to 93	30	43 to 103
Hexachloropropene	**52**	**69**	14	55 to 83	28	41 to 97	42	27 to 111
Indeno(1,2,3-c,d)pyrene	**52**	**96**	12	84 to 108	24	72 to 120	36	60 to 132
Isophorone	**52**	**94**	12	82 to 106	24	70 to 118	36	58 to 130
Isosafrole	**52**	**90**	10	80 to 100	20	70 to 110	30	60 to 120
Malathion	**52**	**94**	13	81 to 107	26	68 to 120	39	55 to 133
Methoxychlor	**55**	**87**	21	66 to 108	42	45 to 129	63	24 to 150
Methyl methanesulfonate	**52**	**53**	14	39 to 67	28	25 to 81	42	11 to 95
Methyl parathion	**52**	**81**	13	68 to 94	26	55 to 107	39	42 to 120
Mevinphos (Phosdrin)	**52**	**90**	17	73 to 107	34	56 to 124	51	39 to 141
N-nitrosodi-n-butylamine	**52**	**93**	12	81 to 105	24	69 to 117	36	57 to 129
N-nitrosodi-n-propylamine	**52**	**88**	17	71 to 105	34	54 to 122	51	37 to 139
N-nitrosodiethylamine	**52**	**85**	15	70 to 100	30	55 to 115	45	40 to 130

N-nitrosomorpholine	**52**	**64**	12	52 to 76	24	40 to 88	36	28 to 100
N-nitrosopiperidine	**52**	**91**	13	78 to 104	26	65 to 117	39	52 to 130
N-nitrosopyrrolidine	**52**	**78**	18	60 to 96	36	42 to 114	54	24 to 132
Naled (Dibrom)	**52**	**84**	24	60 to 108	48	36 to 132	72	12 to 156
Naphthalene	**52**	**89**	10	79 to 99	20	69 to 109	30	59 to 119
NB-d5 (Surr @ 25ug/l)	**53**	**88**	12	76 to 100	24	64 to 112	36	52 to 124
Nitrobenzene	**52**	**93**	10	83 to 103	20	73 to 113	30	63 to 123
o-toluidine	**52**	**90**	19	71 to 109	38	52 to 128	57	33 to 147
Parathion	**52**	**86**	11	75 to 97	22	64 to 108	33	53 to 119
Pentachlorobenzene	**52**	**89**	10	79 to 99	20	69 to 109	30	59 to 119
Pentachloroethane	**52**	**77**	9	68 to 86	18	59 to 95	27	50 to 104
Pentachloronitrobenzene	**52**	**89**	11	78 to 100	22	67 to 111	33	56 to 122
Pentachlorophenol	**51**	**67**	17	50 to 84	34	33 to 101	51	16 to 118
Phenacetin	**52**	**84**	13	71 to 97	26	58 to 110	39	45 to 123
Phenanthrene	**52**	**97**	10	87 to 107	20	77 to 117	30	67 to 127
Phenol	**52**	**44**	14	30 to 58	28	16 to 72	42	2 to 86
Phenol-d5 (Surr @ 25ug/l)	**52**	**39**	14	25 to 53	28	11 to 67	42	0 to 81
Phorate	**52**	**95**	13	82 to 108	26	69 to 121	39	56 to 134
Profenofos	**52**	**89**	14	75 to 103	28	61 to 117	42	47 to 131
Prothiofos	**52**	**94**	11	83 to 105	22	72 to 116	33	61 to 127
Pyrene	**52**	**101**	10	91 to 111	20	81 to 121	30	71 to 131
Ronnel	**52**	**95**	11	84 to 106	22	73 to 117	33	62 to 128
Safrole	**52**	**88**	11	77 to 99	22	66 to 110	33	55 to 121
Stirophos	**52**	**85**	19	66 to 104	38	47 to 123	57	28 to 142
Sulfotepp	**52**	**97**	13	84 to 110	26	71 to 123	39	58 to 136
TP-d14 (Surr @ 25ug/l)	**53**	**101**	10	91 to 111	20	81 to 121	30	71 to 131
trans-chlordane	**55**	**96**	11	85 to 107	22	74 to 118	33	63 to 129
Trichloronate	**52**	**95**	11	84 to 106	22	73 to 117	33	62 to 128

Laboratory Report No: E032494
Client Name: HLA - Enviroscience Pty Limited
Contact Name: Brian Tripolone
Client Reference Green Square S407580212

Date: 26/06/07

This report supercedes reports issued on: 22/06/07

Final
Certificate
of Analysis

Laboratory Identification		**94416**	**94419**	**94420**	**94421**	**94422**	**94423**	**94424**	**94425**	**94449**	**94416d**
Sample Identification		GW1	28	27	GW3	GW2	GW5	TS	TB	RB	QC
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		13/6/07	13/6/07	13/6/07	13/6/07	13/6/07	13/6/07	13/6/07	13/6/07	13/6/07	--
Laboratory Extraction (Preparation) Date		18/6/07	18/6/07	18/6/07	18/6/07	18/6/07	18/6/07	18/6/07	18/6/07	18/6/07	18/6/07
Laboratory Analysis Date		18/6/07	18/6/07	18/6/07	18/6/07	18/6/07	18/6/07	18/6/07	18/6/07	18/6/07	18/6/07
Method : E002.1											
BTEX by P&T	**EQL**										
Benzene	1	<1	<1	<1	<1	<1	<1	69	<1	<1	<1
Toluene	1	<1	<1	<1	<1	<1	<1	68	<1	<1	<1
Ethylbenzene	1	<1	<1	<1	<1	<1	<1	61	<1	<1	<1
meta- & para-Xylene	2	<2	<2	<2	<2	<2	<2	60	<2	<2	<2
ortho-Xylene	1	<1	<1	<1	<1	<1	<1	64	<1	<1	<1
Total Xylene	--	--	--	--	--	--	--	--	--	--	--
4-BFB (Surr @ 100ug/l)	--	*80%*	*88%*	*76%*	*83%*	*77%*	*80%*	*95%*	*76%*	*77%*	*77%*
Method : E003.1											
Volatile TPH by P&T (vTPH)	**EQL**										
C6-C9	50	<50	<50	<50	<50	<50	<50	49	<50	<50	<50

Results expressed in ug/l unless otherwise specified

Comments: Results for Trip Spike sample are expressed in % recovery.

E003.1: Direct injection into P&T/GC/FID.
E002.1: Direct injection into P&T/GC/PID/MSD.

Laboratory Identification		94416r	94420s	lcs	mb						
Sample Identification		QC	QC	QC	QC						
Depth (m)		--	--	--	--						
Sampling Date recorded on COC		--	--	--	--						
Laboratory Extraction (Preparation) Date		--	18/6/07	18/6/07	18/6/07						
Laboratory Analysis Date		--	18/6/07	18/6/07	18/6/07						
Method : E002.1											
BTEX by P&T	**EQL**										
Benzene	1	--	102%	101%	<1						
Toluene	1	--	103%	98%	<1						
Ethylbenzene	1	--	90%	91%	<1						
meta- & para-Xylene	2	--	90%	89%	<2						
ortho-Xylene	1	--	92%	91%	<1						
Total Xylene	--	--	--	--	--						
4-BFB (Surr @ 100ug/l)	--	*4%*	*101%*	*102%*	*76%*						
Method : E003.1											
Volatile TPH by P&T (vTPH)	**EQL**										
C6-C9	50	--	86%	91%	<50						

Results expressed in ug/l unless otherwise specified

Comments: Results for Trip Spike sample are expressed in % recovery.

E003.1: Direct injection into P&T/GC/FID.
E002.1: Direct injection into P&T/GC/PID/MSD.

Laboratory Identification		**94416**	**94420**	**94421**	**94422**	**94449**	**95178**	**95179**	**94416d**	**94416r**	**94420s**
Sample Identification		GW1	27	GW3	GW2	RB	GW5	28	QC	QC	QC
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		13/6/07	13/6/07	13/6/07	13/6/07	13/6/07	15/6/07	15/6/07	--	--	--
Laboratory Extraction (Preparation) Date		15/6/07	15/6/07	15/6/07	15/6/07	15/6/07	19/6/07	19/6/07	15/6/07	--	15/6/07
Laboratory Analysis Date		16/6/07	16/6/07	16/6/07	16/6/07	16/6/07	20/6/07	20/6/07	16/6/07	--	16/6/07
Method : E004.1											
Petroleum Hydrocarbons (TPH)	**EQL**										
C10-C14 Fraction	50	<50	<50	<50	<50	<50	<50	<50	<50	--	--
C15-C28 Fraction	200	<200	<200	<200	<200	<200	<200	<200	<200	--	75%
C29-C36 Fraction	50	<50	<50	<50	<50	<50	<50	<50	<50	--	--
Sum of TPH C10 - C36	--	--	--	--	--	--	--	--	--	--	--

Results expressed in ug/l unless otherwise specified

Comments:

E004.1: Triple extraction with DCM. Analysis by GC/FID.

Laboratory Identification		**lcs**	**lcs**	**mb**	**mb**						
Sample Identification		QC	QC	QC	QC						
Depth (m)		--	--	--	--						
Sampling Date recorded on COC		--	--	--	--						
Laboratory Extraction (Preparation) Date		15/6/07	19/6/07	15/6/07	19/6/07						
Laboratory Analysis Date		16/6/07	19/6/07	16/6/07	19/6/07						
Method : E004.1											
Petroleum Hydrocarbons (TPH)	**EQL**										
C10-C14 Fraction	50	--	--	<50	<50						
C15-C28 Fraction	200	87%	90%	<200	<200						
C29-C36 Fraction	50	--	--	<50	<50						
Sum of TPH C10 - C36	--	--	--	--	--						

Results expressed in ug/l unless otherwise specified

Comments:

E004.1: Triple extraction with DCM. Analysis by GC/FID.

Laboratory Identification		**94416**	**94420**	**94421**	**94422**	**95178**	**95179**	**95178d**	**95178r**	**95179s**	**lcs**
Sample Identification		GW1	27	GW3	GW2	GW5	28	QC	QC	QC	QC
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		13/6/07	13/6/07	13/6/07	13/6/07	15/6/07	15/6/07	--	--	--	--
Laboratory Extraction (Preparation) Date		18/6/07	18/6/07	18/6/07	18/6/07	19/6/07	19/6/07	19/6/07	--	19/6/07	18/6/07
Laboratory Analysis Date		18/6/07	18/6/07	18/6/07	18/6/07	19/6/07	19/6/07	19/6/07	--	19/6/07	18/6/07
Method : E013.1											
Polychlorinated Biphenyls (PCB)	**EQL**										
Arochlor 1016	5	<5	<5	<5	<5	<5	<5	<5	--	--	--
Arochlor 1232	5	<5	<5	<5	<5	<5	<5	<5	--	--	--
Arochlor 1242	5	<5	<5	<5	<5	<5	<5	<5	--	--	--
Arochlor 1248	5	<5	<5	<5	<5	<5	<5	<5	--	94%	103%
Arochlor 1254	5	<5	<5	<5	<5	<5	<5	<5	--	--	--
Arochlor 1260	5	<5	<5	<5	<5	<5	<5	<5	--	--	--
Sum of reported PCBs	--	--	--	--	--	--	--	--	--	--	--
DBC (Surr @ 10ug/l)	--	*108%*	*100%*	*96%*	*103%*	*102%*	*103%*	*103%*	*1%*	*105%*	*116%*

Results expressed in ug/l unless otherwise specified

Comments:

E013.1: Triple extraction with hexane. Analysis by GC/dual ECD.

Laboratory Identification		**lcs**	**mb**	**mb**							
Sample Identification		QC	QC	QC							
Depth (m)		--	--	--							
Sampling Date recorded on COC		--	--	--							
Laboratory Extraction (Preparation) Date		19/6/07	18/6/07	19/6/07							
Laboratory Analysis Date		19/6/07	18/6/07	19/6/07							
Method : E013.1											
Polychlorinated Biphenyls (PCB)	**EQL**										
Arochlor 1016	5	--	<5	<5							
Arochlor 1232	5	--	<5	<5							
Arochlor 1242	5	--	<5	<5							
Arochlor 1248	5	97%	<5	<5							
Arochlor 1254	5	--	<5	<5							
Arochlor 1260	5	--	<5	<5							
Sum of reported PCBs	--	--	--	--							
DBC (Surr @ 10ug/l)	--	*102%*	*122%*	*121%*							

Results expressed in ug/l unless otherwise specified

Comments:

E013.1: Triple extraction with hexane. Analysis by GC/dual ECD.

Laboratory Identification		94416	94420	94421	94422	95178	95179	95178d	95178r	95179s	lcs
Sample Identification		GW1	27	GW3	GW2	GW5	28	QC	QC	QC	QC
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		13/6/07	13/6/07	13/6/07	13/6/07	15/6/07	15/6/07	--	--	--	--
Laboratory Extraction (Preparation) Date		15/6/07	15/6/07	15/6/07	15/6/07	19/6/07	19/6/07	19/6/07	--	19/6/07	15/6/07
Laboratory Analysis Date		16/6/07	20/6/07	16/6/07	16/6/07	20/6/07	20/6/07	20/6/07	--	20/6/07	16/6/07
Method : E017.1											
Semivolatile Organic Compounds (SVOC)	**EQL**										
Phenols											
Phenol	2	<2	<2	<2	<2	<2	<2	<2	--	44%	48%
2-chlorophenol	2	<2	<2	<2	<2	<2	<2	<2	--	117%	108%
2-methylphenol	2	<2	<2	<2	<2	<2	<2	<2	--	96%	83%
3-&4-methylphenol	4	<4	<4	<4	<4	<4	<4	<4	--	94%	83%
2-nitrophenol	2	<2	<2	<2	<2	<2	<2	<2	--	117%	99%
2,4-dimethylphenol	2	<2	<2	<2	<2	<2	<2	<2	--	121%	104%
2,4-dichlorophenol	2	<2	<2	<2	<2	<2	<2	<2	--	117%	104%
2,6-dichlorophenol	2	<2	<2	<2	<2	<2	<2	<2	--	118%	104%
4-chloro-3-methylphenol	2	<2	<2	<2	<2	<2	<2	<2	--	117%	98%
2,4,6-trichlorophenol	2	<2	<2	<2	<2	<2	<2	<2	--	104%	91%
2,4,5-trichlorophenol	2	<2	<2	<2	<2	<2	<2	<2	--	108%	91%
2,3,4,6-tetrachlorophenol	2	<2	<2	<2	<2	<2	<2	<2	--	106%	89%
Pentachlorophenol	4	<4	<4	<4	<4	<4	<4	<4	--	90%	52%
Polynuclear Aromatic Hydrocarbons											
Naphthalene	2	<2	<2	<2	<2	<2	<2	<2	--	121%	101%
2-methylnaphthalene	2	<2	<2	<2	<2	<2	<2	<2	--	116%	104%
2-chloronaphthalene	2	<2	<2	<2	<2	<2	<2	<2	--	117%	103%
Acenaphthylene	2	<2	<2	<2	<2	<2	<2	<2	--	116%	104%
Acenaphthene	2	<2	<2	<2	<2	<2	<2	<2	--	121%	102%
Fluorene	2	<2	<2	<2	<2	<2	<2	<2	--	121%	105%
Phenanthrene	2	<2	<2	<2	<2	<2	<2	<2	--	121%	103%
Anthracene	2	<2	<2	<2	<2	<2	<2	<2	--	120%	110%
Fluoranthene	2	<2	<2	<2	<2	<2	<2	<2	--	125%	109%
Pyrene	2	<2	<2	<2	<2	<2	<2	<2	--	129%	108%
2-(acetylamino) fluorene	2	<2	<2	<2	<2	<2	<2	<2	--	76%	68%
Benz(a)anthracene	2	<2	<2	<2	<2	<2	<2	<2	--	122%	113%

Laboratory Identification		94416	94420	94421	94422	95178	95179	95178d	95178r	95179s	lcs
Sample Identification		GW1	27	GW3	GW2	GW5	28	QC	QC	QC	QC
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		13/6/07	13/6/07	13/6/07	13/6/07	15/6/07	15/6/07	--	--	--	--
Laboratory Extraction (Preparation) Date		15/6/07	15/6/07	15/6/07	15/6/07	19/6/07	19/6/07	19/6/07	--	19/6/07	15/6/07
Laboratory Analysis Date		16/6/07	20/6/07	16/6/07	16/6/07	20/6/07	20/6/07	20/6/07	--	20/6/07	16/6/07
Method : E017.1											
Semivolatile Organic Compounds (SVOC)	**EQL**										
Chrysene	2	<2	<2	<2	<2	<2	<2	<2	--	127%	117%
Benzo(b)&(k)fluoranthene	4	<4	<4	<4	<4	<4	<4	<4	--	123%	124%
7,12-dimethylbenz(a)anthracene	2	<2	<2	<2	<2	<2	<2	<2	--	103%	94%
Benzo(a) pyrene	2	<2	<2	<2	<2	<2	<2	<2	--	107%	134%
3-methylcholanthrene	2	<2	<2	<2	<2	<2	<2	<2	--	128%	122%
Indeno(1,2,3-c,d)pyrene	2	<2	<2	<2	<2	<2	<2	<2	--	116%	114%
Dibenz(a,h)anthracene	2	<2	<2	<2	<2	<2	<2	<2	--	117%	107%
Benzo(g,h,i)perylene	2	<2	<2	<2	<2	<2	<2	<2	--	115%	121%
Phthalates											
Dimethyl phthalate	2	<2	<2	<2	<2	<2	<2	<2	--	124%	118%
Diethylphthalate	2	<2	<2	<2	<2	<2	<2	<2	--	125%	115%
Di-n-butyl phthalate	2	<2	<2	<2	<2	<2	<2	<2	--	129%	110%
Butyl benzyl phthalate	2	<2	<2	<2	<2	<2	<2	<2	--	126%	119%
Bis(2-ethylhexyl) phthalate	20	<20	<20	<20	<20	<20	<20	<20	--	127%	128%
Di-n-octyl phthalate	2	<2	<2	<2	<2	<2	<2	<2	--	116%	104%
Nitrosamines											
N-nitrosodiethylamine	2	<2	<2	<2	<2	<2	<2	<2	--	126%	119%
N-nitrosopyrrolidine	4	<4	<4	<4	<4	<4	<4	<4	--	92%	126%
N-nitrosomorpholine	2	<2	<2	<2	<2	<2	<2	<2	--	83%	85%
N-nitrosodi-n-propylamine	2	<2	<2	<2	<2	<2	<2	<2	--	122%	75%
N-nitrosopiperidine	2	<2	<2	<2	<2	<2	<2	<2	--	115%	98%
N-nitrosodi-n-butylamine	2	<2	<2	<2	<2	<2	<2	<2	--	112%	104%
Diphenylamine	2	<2	<2	<2	<2	<2	<2	<2	--	124%	100%
4-aminobiphenyl	2	<2	<2	<2	<2	<2	<2	<2	--	124%	100%
Organochlorine Pesticides											
a-BHC	2	<2	<2	<2	<2	<2	<2	<2	--	126%	117%
b-BHC	2	<2	<2	<2	<2	<2	<2	<2	--	99%	102%

Laboratory Identification		94416	94420	94421	94422	95178	95179	95178d	95178r	95179s	lcs
Sample Identification		GW1	27	GW3	GW2	GW5	28	QC	QC	QC	QC
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		13/6/07	13/6/07	13/6/07	13/6/07	15/6/07	15/6/07	--	--	--	--
Laboratory Extraction (Preparation) Date		15/6/07	15/6/07	15/6/07	15/6/07	19/6/07	19/6/07	19/6/07	--	19/6/07	15/6/07
Laboratory Analysis Date		16/6/07	20/6/07	16/6/07	16/6/07	20/6/07	20/6/07	20/6/07	--	20/6/07	16/6/07
Method : E017.1											
Semivolatile Organic Compounds (SVOC)	**EQL**										
d-BHC	2	<2	<2	<2	<2	<2	<2	<2	--	123%	114%
g-BHC (Lindane)	2	<2	<2	<2	<2	<2	<2	<2	--	120%	112%
Heptachlor	2	<2	<2	<2	<2	<2	<2	<2	--	122%	95%
Aldrin	2	<2	<2	<2	<2	<2	<2	<2	--	126%	112%
Heptachlor epoxide	2	<2	<2	<2	<2	<2	<2	<2	--	119%	113%
Endosulfan I	2	<2	<2	<2	<2	<2	<2	<2	--	126%	118%
trans-chlordane	2	<2	<2	<2	<2	<2	<2	<2	--	121%	111%
cis-chlordane	2	<2	<2	<2	<2	<2	<2	<2	--	119%	114%
4,4-DDE	2	<2	<2	<2	<2	<2	<2	<2	--	114%	110%
Dieldrin	2	<2	<2	<2	<2	<2	<2	<2	--	127%	94%
Endrin	2	<2	<2	<2	<2	<2	<2	<2	--	129%	109%
Endosulfan II	2	<2	<2	<2	<2	<2	<2	<2	--	128%	113%
4,4-DDD	2	<2	<2	<2	<2	<2	<2	<2	--	112%	120%
Endosulfan sulphate	2	<2	<2	<2	<2	<2	<2	<2	--	116%	106%
Endrin aldehyde	2	<2	<2	<2	<2	<2	<2	<2	--	123%	78%
Endrin ketone	2	<2	<2	<2	<2	<2	<2	<2	--	124%	119%
4,4-DDT	4	<4	<4	<4	<4	<4	<4	<4	--	77%	85%
Methoxychlor	2	<2	<2	<2	<2	<2	<2	<2	--	83%	84%
Organophosphorus Pesticides											
Dichlorvos	2	<2	<2	<2	<2	<2	<2	<2	--	110%	116%
Mevinphos (Phosdrin)	2	<2	<2	<2	<2	<2	<2	<2	--	115%	111%
Demeton-O	2	<2	<2	<2	<2	<2	<2	<2	--	115%	92%
Ethoprop	2	<2	<2	<2	<2	<2	<2	<2	--	119%	101%
Naled (Dibrom)	2	<2	<2	<2	<2	<2	<2	<2	--	89%	61%
Phorate	2	<2	<2	<2	<2	<2	<2	<2	--	118%	99%
Demeton-S	2	<2	<2	<2	<2	<2	<2	<2	--	114%	103%
Dimethoate	2	<2	<2	<2	<2	<2	<2	<2	--	113%	88%

Laboratory Identification		94416	94420	94421	94422	95178	95179	95178d	95178r	95179s	lcs
Sample Identification		GW1	27	GW3	GW2	GW5	28	QC	QC	QC	QC
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		13/6/07	13/6/07	13/6/07	13/6/07	15/6/07	15/6/07	--	--	--	--
Laboratory Extraction (Preparation) Date		15/6/07	15/6/07	15/6/07	15/6/07	19/6/07	19/6/07	19/6/07	--	19/6/07	15/6/07
Laboratory Analysis Date		16/6/07	20/6/07	16/6/07	16/6/07	20/6/07	20/6/07	20/6/07	--	20/6/07	16/6/07
Method : E017.1											
Semivolatile Organic Compounds (SVOC)	**EQL**										
Diazinon	2	<2	<2	<2	<2	<2	<2	<2	--	124%	117%
Sulfotepp	2	<2	<2	<2	<2	<2	<2	<2	--	121%	105%
Disulfoton	2	<2	<2	<2	<2	<2	<2	<2	--	119%	103%
Methyl parathion	2	<2	<2	<2	<2	<2	<2	<2	--	117%	97%
Ronnel	2	<2	<2	<2	<2	<2	<2	<2	--	119%	116%
Malathion	2	<2	<2	<2	<2	<2	<2	<2	--	125%	108%
Fenitrothion	2	<2	<2	<2	<2	<2	<2	<2	--	125%	100%
Fenthion	2	<2	<2	<2	<2	<2	<2	<2	--	126%	109%
Chlorpyrifos	2	<2	<2	<2	<2	<2	<2	<2	--	123%	112%
Parathion	2	<2	<2	<2	<2	<2	<2	<2	--	108%	116%
Trichloronate	2	<2	<2	<2	<2	<2	<2	<2	--	118%	114%
EPN	2	<2	<2	<2	<2	<2	<2	<2	--	107%	94%
Stirophos	2	<2	<2	<2	<2	<2	<2	<2	--	127%	104%
Prothiofos	2	<2	<2	<2	<2	<2	<2	<2	--	114%	112%
Profenofos	2	<2	<2	<2	<2	<2	<2	<2	--	116%	108%
Fensulfothion	2	<2	<2	<2	<2	<2	<2	<2	--	94%	59%
Azinophos methyl	2	<2	<2	<2	<2	<2	<2	<2	--	114%	77%
Coumaphos	2	<2	<2	<2	<2	<2	<2	<2	--	119%	127%
Nitroaromatics and Ketones											
Acetophenone	2	<2	<2	<2	<2	<2	<2	<2	--	127%	114%
Isophorone	2	<2	<2	<2	<2	<2	<2	<2	--	112%	102%
Nitrobenzene	2	<2	<2	<2	<2	<2	<2	<2	--	113%	98%
1,4-dinitrobenzene	2	<2	<2	<2	<2	<2	<2	<2	--	116%	95%
2,6-dinitrotoluene	4	<4	<4	<4	<4	<4	<4	<4	--	116%	106%
2,4-dinitrotoluene	4	<4	<4	<4	<4	<4	<4	<4	--	116%	88%
5-nitro-o-toluidine	2	<2	<2	<2	<2	<2	<2	<2	--	122%	103%
Azobenzene	2	<2	<2	<2	<2	<2	<2	<2	--	116%	95%

Laboratory Identification		94416	94420	94421	94422	95178	95179	95178d	95178r	95179s	lcs
Sample Identification		GW1	27	GW3	GW2	GW5	28	QC	QC	QC	QC
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		13/6/07	13/6/07	13/6/07	13/6/07	15/6/07	15/6/07	--	--	--	--
Laboratory Extraction (Preparation) Date		15/6/07	15/6/07	15/6/07	15/6/07	19/6/07	19/6/07	19/6/07	--	19/6/07	15/6/07
Laboratory Analysis Date		16/6/07	20/6/07	16/6/07	16/6/07	20/6/07	20/6/07	20/6/07	--	20/6/07	16/6/07
Method : E017.1											
Semivolatile Organic Compounds (SVOC)	**EQL**										
4-(dimethylamino) azobenzene	2	<2	<2	<2	<2	<2	<2	<2	--	114%	102%
Phenacetin	2	<2	<2	<2	<2	<2	<2	<2	--	104%	89%
Pentachloronitrobenzene	2	<2	<2	<2	<2	<2	<2	<2	--	116%	104%
Anilines and Benzedines											
Aniline	2	<2	<2	<2	<2	<2	<2	<2	--	56%	42%
4-chloroaniline	2	<2	<2	<2	<2	<2	<2	<2	--	113%	99%
2-nitroaniline	4	<4	<4	<4	<4	<4	<4	<4	--	118%	98%
3-nitroaniline	4	<4	<4	<4	<4	<4	<4	<4	--	102%	77%
4-nitroaniline	2	<2	<2	<2	<2	<2	<2	<2	--	111%	100%
Dibenzofuran	2	<2	<2	<2	<2	<2	<2	<2	--	119%	108%
Carbazole	2	2	<2	<2	<2	<2	<2	<2	--	121%	109%
o-toluidine	2	<2	<2	<2	<2	<2	<2	<2	--	101%	85%
1-naphthylamine	2	<2	<2	<2	<2	<2	<2	<2	--	76%	123%
2-naphthylamine	2	<2	<2	<2	<2	<2	<2	<2	--	108%	180%
Chlorinated Hydrocarbons											
1,3-dichlorobenzene	2	<2	<2	<2	<2	<2	<2	<2	--	106%	71%
1,4-dichlorobenzene	2	<2	<2	<2	<2	<2	<2	<2	--	125%	95%
1,2-dichlorobenzene	2	<2	<2	<2	<2	<2	<2	<2	--	107%	81%
1,2,4-trichlorobenzene	2	<2	<2	<2	<2	<2	<2	<2	--	116%	96%
1,2,4,5-tetrachlorobenzene	2	<2	<2	<2	<2	<2	<2	<2	--	116%	102%
Pentachlorobenzene	2	<2	<2	<2	<2	<2	<2	<2	--	120%	102%
Hexachlorobenzene	2	<2	<2	<2	<2	<2	<2	<2	--	127%	109%
Pentachloroethane	2	<2	<2	<2	<2	<2	<2	<2	--	111%	77%
Hexachloroethane	2	<2	<2	<2	<2	<2	<2	<2	--	104%	83%
Hexachloropropene	2	<2	<2	<2	<2	<2	<2	<2	--	124%	67%
Hexachlorobutadiene	2	<2	<2	<2	<2	<2	<2	<2	--	109%	88%
Hexachlorocyclopentadiene	4	<4	<4	<4	<4	<4	<4	<4	--	74%	66%

Laboratory Identification		94416	94420	94421	94422	95178	95179	95178d	95178r	95179s	lcs
Sample Identification		GW1	27	GW3	GW2	GW5	28	QC	QC	QC	QC
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		13/6/07	13/6/07	13/6/07	13/6/07	15/6/07	15/6/07	--	--	--	--
Laboratory Extraction (Preparation) Date		15/6/07	15/6/07	15/6/07	15/6/07	19/6/07	19/6/07	19/6/07	--	19/6/07	15/6/07
Laboratory Analysis Date		16/6/07	20/6/07	16/6/07	16/6/07	20/6/07	20/6/07	20/6/07	--	20/6/07	16/6/07
Method : E017.1											
Semivolatile Organic Compounds (SVOC)	**EQL**										
Haloethers											
Bis(2-chloroethyl)ether	2	<2	<2	<2	<2	<2	<2	<2	--	126%	92%
Bis(2-chloroisopropyl) ether	2	<2	<2	<2	<2	<2	<2	<2	--	113%	97%
Bis(2-chloroethoxy) methane	2	<2	<2	<2	<2	<2	<2	<2	--	122%	109%
4-chlorophenyl phenyl ether	2	<2	<2	<2	<2	<2	<2	<2	--	125%	107%
4-bromophenyl phenyl ether	2	<2	<2	<2	<2	<2	<2	<2	--	123%	108%
Miscellaneous Compounds											
Methyl methanesulfonate	2	<2	<2	<2	<2	<2	<2	<2	--	83%	65%
Ethyl methanesulfonate	2	<2	<2	<2	<2	<2	<2	<2	--	103%	92%
Benzyl alcohol	2	<2	<2	<2	<2	<2	<2	<2	--	##	51%
Safrole	2	<2	<2	<2	<2	<2	<2	<2	--	117%	99%
Isosafrole	2	<2	<2	<2	<2	<2	<2	<2	--	111%	107%
Surrogate Standards											
2-FP (Surr @ 25ug/l)	--	*55%*	*38%*	*59%*	*57%*	*57%*	*62%*	*61%*	*7%*	*64%*	*58%*
Phenol-d5 (Surr @ 25ug/l)	--	*36%*	*25%*	*37%*	*39%*	*37%*	*39%*	*42%*	*13%*	*42%*	*41%*
NB-d5 (Surr @ 25ug/l)	--	*100%*	*71%*	*85%*	*92%*	*109%*	*102%*	*108%*	*1%*	*108%*	*97%*
2-FBP (Surr @ 25ug/l)	--	*95%*	*72%*	*83%*	*87%*	*105%*	*99%*	*105%*	*0%*	*107%*	*95%*
TP-d14 (Surr @ 25ug/l)	--	*91%*	*69%*	*87%*	*84%*	*108%*	*105%*	*108%*	*0%*	*110%*	*97%*

Results expressed in ug/l unless otherwise specified

Comments: ## Percent recovery not available due to interference from the sample.

E017.1: Base/neutral and acidic extraction with DCM.Analysis by GC/MS.

Laboratory Identification		lcs	mb	mb							
Sample Identification		QC	QC	QC							
Depth (m)		--	--	--							
Sampling Date recorded on COC		--	--	--							
Laboratory Extraction (Preparation) Date		19/6/07	15/6/07	19/6/07							
Laboratory Analysis Date		20/6/07	16/6/07	20/6/07							
Method : E017.1											
Semivolatile Organic Compounds (SVOC)	**EQL**										
Phenols											
Phenol	2	43%	<2	<2							
2-chlorophenol	2	106%	<2	<2							
2-methylphenol	2	90%	<2	<2							
3-&4-methylphenol	4	87%	<4	<4							
2-nitrophenol	2	102%	<2	<2							
2,4-dimethylphenol	2	110%	<2	<2							
2,4-dichlorophenol	2	112%	<2	<2							
2,6-dichlorophenol	2	110%	<2	<2							
4-chloro-3-methylphenol	2	109%	<2	<2							
2,4,6-trichlorophenol	2	102%	<2	<2							
2,4,5-trichlorophenol	2	100%	<2	<2							
2,3,4,6-tetrachlorophenol	2	90%	<2	<2							
Pentachlorophenol	4	77%	<4	<4							
Polynuclear Aromatic Hydrocarbons											
Naphthalene	2	106%	<2	<2							
2-methylnaphthalene	2	105%	<2	<2							
2-chloronaphthalene	2	106%	<2	<2							
Acenaphthylene	2	104%	<2	<2							
Acenaphthene	2	109%	<2	<2							
Fluorene	2	107%	<2	<2							
Phenanthrene	2	108%	<2	<2							
Anthracene	2	109%	<2	<2							
Fluoranthene	2	111%	<2	<2							
Pyrene	2	112%	<2	<2							
2-(acetylamino) fluorene	2	73%	<2	<2							
Benz(a)anthracene	2	114%	<2	<2							

Laboratory Identification		lcs	mb	mb							
Sample Identification		QC	QC	QC							
Depth (m)		--	--	--							
Sampling Date recorded on COC		--	--	--							
Laboratory Extraction (Preparation) Date		19/6/07	15/6/07	19/6/07							
Laboratory Analysis Date		20/6/07	16/6/07	20/6/07							
Method : E017.1											
Semivolatile Organic Compounds (SVOC)	**EQL**										
Chrysene	2	123%	<2	<2							
Benzo(b)&(k)fluoranthene	4	123%	<4	<4							
7,12-dimethylbenz(a)anthracene	2	92%	<2	<2							
Benzo(a) pyrene	2	110%	<2	<2							
3-methylcholanthrene	2	123%	<2	<2							
Indeno(1,2,3-c,d)pyrene	2	117%	<2	<2							
Dibenz(a,h)anthracene	2	119%	<2	<2							
Benzo(g,h,i)perylene	2	120%	<2	<2							
Phthalates											
Dimethyl phthalate	2	113%	<2	<2							
Diethylphthalate	2	114%	<2	<2							
Di-n-butyl phthalate	2	110%	<2	<2							
Butyl benzyl phthalate	2	118%	<2	<2							
Bis(2-ethylhexyl) phthalate	20	119%	<20	<20							
Di-n-octyl phthalate	2	114%	<2	<2							
Nitrosamines											
N-nitrosodiethylamine	2	114%	<2	<2							
N-nitrosopyrrolidine	4	88%	<4	<4							
N-nitrosomorpholine	2	78%	<2	<2							
N-nitrosodi-n-propylamine	2	108%	<2	<2							
N-nitrosopiperidine	2	106%	<2	<2							
N-nitrosodi-n-butylamine	2	102%	<2	<2							
Diphenylamine	2	111%	<2	<2							
4-aminobiphenyl	2	111%	<2	<2							
Organochlorine Pesticides											
a-BHC	2	119%	<2	<2							
b-BHC	2	93%	<2	<2							

Laboratory Identification		lcs	mb	mb							
Sample Identification		QC	QC	QC							
Depth (m)		--	--	--							
Sampling Date recorded on COC		--	--	--							
Laboratory Extraction (Preparation) Date		19/6/07	15/6/07	19/6/07							
Laboratory Analysis Date		20/6/07	16/6/07	20/6/07							
Method : E017.1											
Semivolatile Organic Compounds (SVOC)	**EQL**										
d-BHC	2	108%	<2	<2							
g-BHC (Lindane)	2	105%	<2	<2							
Heptachlor	2	116%	<2	<2							
Aldrin	2	109%	<2	<2							
Heptachlor epoxide	2	108%	<2	<2							
Endosulfan I	2	109%	<2	<2							
trans-chlordane	2	114%	<2	<2							
cis-chlordane	2	112%	<2	<2							
4,4-DDE	2	107%	<2	<2							
Dieldrin	2	107%	<2	<2							
Endrin	2	122%	<2	<2							
Endosulfan II	2	112%	<2	<2							
4,4-DDD	2	101%	<2	<2							
Endosulfan sulphate	2	102%	<2	<2							
Endrin aldehyde	2	107%	<2	<2							
Endrin ketone	2	112%	<2	<2							
4,4-DDT	4	127%	<4	<4							
Methoxychlor	2	128%	<2	<2							
Organophosphorus Pesticides											
Dichlorvos	2	104%	<2	<2							
Mevinphos (Phosdrin)	2	106%	<2	<2							
Demeton-O	2	103%	<2	<2							
Ethoprop	2	108%	<2	<2							
Naled (Dibrom)	2	122%	<2	<2							
Phorate	2	108%	<2	<2							
Demeton-S	2	106%	<2	<2							
Dimethoate	2	102%	<2	<2							

Laboratory Identification		lcs	mb	mb							
Sample Identification		QC	QC	QC							
Depth (m)		--	--	--							
Sampling Date recorded on COC		--	--	--							
Laboratory Extraction (Preparation) Date		19/6/07	15/6/07	19/6/07							
Laboratory Analysis Date		20/6/07	16/6/07	20/6/07							
Method : E017.1											
Semivolatile Organic Compounds (SVOC)	**EQL**										
Diazinon	2	122%	<2	<2							
Sulfotepp	2	119%	<2	<2							
Disulfoton	2	108%	<2	<2							
Methyl parathion	2	103%	<2	<2							
Ronnel	2	113%	<2	<2							
Malathion	2	110%	<2	<2							
Fenitrothion	2	111%	<2	<2							
Fenthion	2	114%	<2	<2							
Chlorpyrifos	2	106%	<2	<2							
Parathion	2	94%	<2	<2							
Trichloronate	2	107%	<2	<2							
EPN	2	97%	<2	<2							
Stirophos	2	112%	<2	<2							
Prothiofos	2	106%	<2	<2							
Profenofos	2	107%	<2	<2							
Fensulfothion	2	88%	<2	<2							
Azinophos methyl	2	102%	<2	<2							
Coumaphos	2	108%	<2	<2							
Nitroaromatics and Ketones											
Acetophenone	2	113%	<2	<2							
Isophorone	2	100%	<2	<2							
Nitrobenzene	2	102%	<2	<2							
1,4-dinitrobenzene	2	105%	<2	<2							
2,6-dinitrotoluene	4	106%	<4	<4							
2,4-dinitrotoluene	4	101%	<4	<4							
5-nitro-o-toluidine	2	108%	<2	<2							
Azobenzene	2	104%	<2	<2							

Laboratory Identification		lcs	mb	mb							
Sample Identification		QC	QC	QC							
Depth (m)		--	--	--							
Sampling Date recorded on COC		--	--	--							
Laboratory Extraction (Preparation) Date		19/6/07	15/6/07	19/6/07							
Laboratory Analysis Date		20/6/07	16/6/07	20/6/07							
Method : E017.1											
Semivolatile Organic Compounds (SVOC)	**EQL**										
4-(dimethylamino) azobenzene	2	113%	<2	<2							
Phenacetin	2	99%	<2	<2							
Pentachloronitrobenzene	2	104%	<2	<2							
Anilines and Benzedines											
Aniline	2	44%	<2	<2							
4-chloroaniline	2	98%	<2	<2							
2-nitroaniline	4	107%	<4	<4							
3-nitroaniline	4	93%	<4	<4							
4-nitroaniline	2	107%	<2	<2							
Dibenzofuran	2	107%	<2	<2							
Carbazole	2	111%	<2	<2							
o-toluidine	2	76%	<2	<2							
1-naphthylamine	2	124%	<2	<2							
2-naphthylamine	2	102%	<2	<2							
Chlorinated Hydrocarbons											
1,3-dichlorobenzene	2	93%	<2	<2							
1,4-dichlorobenzene	2	112%	<2	<2							
1,2-dichlorobenzene	2	94%	<2	<2							
1,2,4-trichlorobenzene	2	100%	<2	<2							
1,2,4,5-tetrachlorobenzene	2	105%	<2	<2							
Pentachlorobenzene	2	106%	<2	<2							
Hexachlorobenzene	2	111%	<2	<2							
Pentachloroethane	2	101%	<2	<2							
Hexachloroethane	2	88%	<2	<2							
Hexachloropropene	2	108%	<2	<2							
Hexachlorobutadiene	2	91%	<2	<2							
Hexachlorocyclopentadiene	4	120%	<4	<4							

Laboratory Identification		**lcs**	**mb**	**mb**							
Sample Identification		QC	QC	QC							
Depth (m)		--	--	--							
Sampling Date recorded on COC		--	--	--							
Laboratory Extraction (Preparation) Date		19/6/07	15/6/07	19/6/07							
Laboratory Analysis Date		20/6/07	16/6/07	20/6/07							
Method : E017.1											
Semivolatile Organic Compounds (SVOC)	**EQL**										
Haloethers											
Bis(2-chloroethyl)ether	2	115%	<2	<2							
Bis(2-chloroisopropyl) ether	2	100%	<2	<2							
Bis(2-chloroethoxy) methane	2	111%	<2	<2							
4-chlorophenyl phenyl ether	2	112%	<2	<2							
4-bromophenyl phenyl ether	2	109%	<2	<2							
Miscellaneous Compounds											
Methyl methanesulfonate	2	87%	<2	<2							
Ethyl methanesulfonate	2	96%	<2	<2							
Benzyl alcohol	2	49%	<2	<2							
Safrole	2	103%	<2	<2							
Isosafrole	2	104%	<2	<2							
Surrogate Standards											
2-FP (Surr @ 25ug/l)	--	*63%*	*58%*	*60%*							
Phenol-d5 (Surr @ 25ug/l)	--	*41%*	*42%*	*38%*							
NB-d5 (Surr @ 25ug/l)	--	*100%*	*94%*	*98%*							
2-FBP (Surr @ 25ug/l)	--	*100%*	*84%*	*96%*							
TP-d14 (Surr @ 25ug/l)	--	*106%*	*97%*	*102%*							

Results expressed in ug/l unless otherwise specified

Comments: ## Percent recovery not available due to interference from the sample.

E017.1: Base/neutral and acidic extraction with DCM.Analysis by GC/MS.

Laboratory Identification		**94416**	**94419**	**94420**	**94423**	**94449**	**94766**	**94767**	**94416d**	**94416r**	**94420s**
Sample Identification		GW1	28	27	GW5	RB	GW2	GW3	QC	QC	QC
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		13/6/07	13/6/07	13/6/07	13/6/07	13/6/07	13/6/07	13/6/07	--	--	--
Laboratory Extraction (Preparation) Date		18/6/07	18/6/07	18/6/07	18/6/07	18/6/07	18/6/07	18/6/07	18/6/07	--	18/6/07
Laboratory Analysis Date		19/6/07	19/6/07	19/6/07	19/6/07	19/6/07	19/6/07	19/6/07	19/6/07	--	19/6/07
Method : E022.1											
Filtered metals (M7)	**EQL**										
Arsenic	1	14	<1	<1	19	<1	14	<1	14	0%	105%
Cadmium	0.1	<0.1	*<0.2	<0.1	<0.1	<0.1	0.4	<0.1	<0.1	--	96%
Chromium	1	<1	<1	<1	<1	<1	<1	<1	<1	--	100%
Copper	1	2	2	1	<1	<1	1	<1	1	67%	95%
Nickel	1	33	2	3	6	<1	11	1	34	3%	98%
Lead	1	3	<1	<1	<1	<1	2	<1	2	40%	107%
Zinc	5	35	29	13	30	<5	21	17	34	3%	105%

Results expressed in ug/l unless otherwise specified

Comments: *EQL increased due to matrix interference.

E022.1: Filtered HNO3 preserved sample directly analysed by ICP-MS.

Laboratory Identification		**lcs**	**mb**								
Sample Identification		QC	QC								
Depth (m)		--	--								
Sampling Date recorded on COC		--	--								
Laboratory Extraction (Preparation) Date		18/6/07	18/6/07								
Laboratory Analysis Date		18/6/07	18/6/07								
Method : E022.1											
Filtered metals (M7)	**EQL**										
Arsenic	1	115%	<1								
Cadmium	0.1	91%	<0.1								
Chromium	1	108%	<1								
Copper	1	109%	<1								
Nickel	1	107%	<1								
Lead	1	101%	<1								
Zinc	5	107%	<5								

Results expressed in ug/l unless otherwise specified

Comments: *EQL increased due to matrix interference.

E022.1: Filtered HNO3 preserved sample directly analysed by ICP-MS.

Laboratory Identification		94416	94419	94420	94423	94449	94766	94767	94416d	94416r	94420s
Sample Identification		GW1	28	27	GW5	RB	GW2	GW3	QC	QC	QC
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		13/6/07	13/6/07	13/6/07	13/6/07	13/6/07	13/6/07	13/6/07	--	--	--
Laboratory Extraction (Preparation) Date		18/6/07	18/6/07	18/6/07	18/6/07	18/6/07	18/6/07	18/6/07	18/6/07	--	18/6/07
Laboratory Analysis Date		19/6/07	19/6/07	19/6/07	19/6/07	19/6/07	19/6/07	19/6/07	19/6/07	--	19/6/07
Method : E026.1											
Filtered mercury	**EQL**										
Mercury	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	--	103%

Results expressed in ug/l unless otherwise specified

Comments:

E026.1: Analysis by CV-ICP-MS or FIMS following BrCl pre-treatment.

Laboratory Identification		lcs	mb								
Sample Identification		QC	QC								
Depth (m)		--	--								
Sampling Date recorded on COC		--	--								
Laboratory Extraction (Preparation) Date		18/6/07	18/6/07								
Laboratory Analysis Date		19/6/07	19/6/07								
Method : E026.1											
Filtered mercury	**EQL**										
Mercury	0.1	102%	<0.1								

Results expressed in ug/l unless otherwise specified

Comments:

E026.1: Analysis by CV-ICP-MS or FIMS following BrCl pre-treatment.

Laboratory Identification		**94416**	**94419**	**94420**	**94421**	**94422**	**94423**	**94416d**	**94416r**	**94419s**	**lcs**
Sample Identification		GW1	28	27	GW3	GW2	GW5	QC	QC	QC	QC
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		13/6/07	13/6/07	13/6/07	13/6/07	13/6/07	13/6/07	--	--	--	--
Laboratory Extraction (Preparation) Date		14/6/07	14/6/07	14/6/07	14/6/07	14/6/07	14/6/07	14/6/07	--	14/6/07	14/6/07
Laboratory Analysis Date		14/6/07	14/6/07	14/6/07	14/6/07	14/6/07	14/6/07	14/6/07	--	14/6/07	14/6/07
Method : E035.1											
Total alkalinity	**EQL**										
Alkalinity	5	120	230	380	6	180	210	130	8%	90%	105%

Results expressed in mg/l unless otherwise specified

Comments:

E035.1: Determination by colour and/or by titration. Results expressed as CaCO3.

Laboratory Identification		**mb**									
Sample Identification		QC									
Depth (m)		--									
Sampling Date recorded on COC		--									
Laboratory Extraction (Preparation) Date		14/6/07									
Laboratory Analysis Date		14/6/07									
Method : E035.1											
Total alkalinity	**EQL**										
Alkalinity	5	<5									

Results expressed in mg/l unless otherwise specified

Comments:

E035.1: Determination by colour and/or by titration. Results expressed as CaCO3.

Laboratory Identification		94416	94419	94420	94421	94422	94423	94416d	94416r	94419s	lcs
Sample Identification		GW1	28	27	GW3	GW2	GW5	QC	QC	QC	QC
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		13/6/07	13/6/07	13/6/07	13/6/07	13/6/07	13/6/07	--	--	--	--
Laboratory Extraction (Preparation) Date		14/6/07	14/6/07	14/6/07	14/6/07	14/6/07	14/6/07	14/6/07	--	14/6/07	14/6/07
Laboratory Analysis Date		19/6/07	19/6/07	19/6/07	19/6/07	19/6/07	19/6/07	19/6/07	--	19/6/07	19/6/07
Method : E033.1/E045.1/E047.1											
Chloride	**EQL**										
Chloride	1	120	46	16	30	120	35	120	0%	114%	111%

Results expressed in mg/l unless otherwise specified

Comments:

E033.1/E045.1/E047.1: Determination by colour and/or by Ion Chromatography. Sample filtered through a 0.45um filter prior to analysis.

Laboratory Identification		mb									
Sample Identification		QC									
Depth (m)		--									
Sampling Date recorded on COC		--									
Laboratory Extraction (Preparation) Date		14/6/07									
Laboratory Analysis Date		19/6/07									
Method : E033.1/E045.1/E047.1											
Chloride	**EQL**										
Chloride	1	<1									

Results expressed in mg/l unless otherwise specified

Comments:

E033.1/E045.1/E047.1: Determination by colour and/or by Ion Chromatography. Sample filtered through a 0.45um filter prior to analysis.

Laboratory Identification		**94416**	**94419**	**94420**	**94421**	**94422**	**94423**	**94416d**	**94416r**	**94419s**	**lcs**
Sample Identification		GW1	28	27	GW3	GW2	GW5	QC	QC	QC	QC
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		13/6/07	13/6/07	13/6/07	13/6/07	13/6/07	13/6/07	--	--	--	--
Laboratory Extraction (Preparation) Date		14/6/07	14/6/07	14/6/07	14/6/07	14/6/07	14/6/07	14/6/07	--	14/6/07	14/6/07
Laboratory Analysis Date		19/6/07	19/6/07	19/6/07	19/6/07	19/6/07	19/6/07	19/6/07	--	19/6/07	19/6/07
Method : E034.1/E045.1											
Fluoride	**EQL**										
Fluoride	0.1	0.2	<0.1	<0.1	<0.1	0.2	0.1	0.2	0%	95%	108%

Results expressed in mg/l unless otherwise specified

Comments:

E034.1/E045.1: Determined by FIA-Ion Selective Electrode and/or by Ion Chromatography. Samples filtered through a 0.45um filter prior to analysis.

Laboratory Identification		**mb**									
Sample Identification		QC									
Depth (m)		--									
Sampling Date recorded on COC		--									
Laboratory Extraction (Preparation) Date		14/6/07									
Laboratory Analysis Date		19/6/07									
Method : E034.1/E045.1											
Fluoride	**EQL**										
Fluoride	0.1	<0.1									

Results expressed in mg/l unless otherwise specified

Comments:

E034.1/E045.1: Determined by FIA-Ion Selective Electrode and/or by Ion Chromatography. Samples filtered through a 0.45um filter prior to analysis.

Laboratory Identification		94416	94419	94420	94421	94422	94423	94416d	94416r	94419s	lcs
Sample Identification		GW1	28	27	GW3	GW2	GW5	QC	QC	QC	QC
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		13/6/07	13/6/07	13/6/07	13/6/07	13/6/07	13/6/07	--	--	--	--
Laboratory Extraction (Preparation) Date		14/6/07	14/6/07	14/6/07	14/6/07	14/6/07	14/6/07	14/6/07	--	14/6/07	14/6/07
Laboratory Analysis Date		19/6/07	19/6/07	19/6/07	19/6/07	19/6/07	19/6/07	19/6/07	--	19/6/07	19/6/07
Method : E042.1/E045.1/E056.1											
Sulphate	**EQL**										
Sulphate	2	30	31	28	14	58	7	29	3%	105%	108%

Results expressed in mg/l unless otherwise specified

Comments:

E042.1/E045.1/E056.1: Determination by colour and/or by Ion Chromatography. Sample filtered through 0.45um prior to analysis.

Laboratory Identification		mb									
Sample Identification		QC									
Depth (m)		--									
Sampling Date recorded on COC		--									
Laboratory Extraction (Preparation) Date		14/6/07									
Laboratory Analysis Date		19/6/07									
Method : E042.1/E045.1/E056.1											
Sulphate	**EQL**										
Sulphate	2	<2									

Results expressed in mg/l unless otherwise specified

Comments:

E042.1/E045.1/E056.1: Determination by colour and/or by Ion Chromatography. Sample filtered through 0.45um prior to analysis.

Laboratory Identification		**94416**	**94419**	**94420**	**94421**	**94422**	**94423**	**94416d**	**94416r**	**94419s**	**lcs**
Sample Identification		GW1	28	27	GW3	GW2	GW5	QC	QC	QC	QC
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		13/6/07	13/6/07	13/6/07	13/6/07	13/6/07	13/6/07	--	--	--	--
Laboratory Extraction (Preparation) Date		14/6/07	14/6/07	14/6/07	14/6/07	14/6/07	14/6/07	14/6/07	--	14/6/07	14/6/07
Laboratory Analysis Date		15/6/07	15/6/07	15/6/07	15/6/07	15/6/07	15/6/07	15/6/07	--	15/6/07	14/6/07
Method : E037.1/E051.1											
Nitrite as N	**EQL**										
NO2-N	0.01	<0.01	0.01	<0.01	<0.01	0.04	<0.01	<0.01	--	96%	94%
Method : E037.1/E051.1											
Nitrate as N	**EQL**										
NO3-N	0.01	0.01	7.6	8.3	<0.01	1.2	0.12	<0.01	>0%	#	97%

Results expressed in mg/l unless otherwise specified

Comments: # Percent recovery not available due to significant background levels of analyte in sample.

E037.1/E051.1: Nitrate determined by colour. Sample filtered through 0.45um prior to analysis.
E037.1/E051.1: Nitrite determined by colour. Sample filtered through 0.45um prior to analysis.

Laboratory Identification		**mb**									
Sample Identification		QC									
Depth (m)		--									
Sampling Date recorded on COC		--									
Laboratory Extraction (Preparation) Date		14/6/07									
Laboratory Analysis Date		14/6/07									
Method : E037.1/E051.1											
Nitrite as N	**EQL**										
NO2-N	0.01	<0.01									
Method : E037.1/E051.1											
Nitrate as N	**EQL**										
NO3-N	0.01	<0.01									

Results expressed in mg/l unless otherwise specified

Comments: # Percent recovery not available due to significant background levels of analyte in sample.

E037.1/E051.1: Nitrate determined by colour. Sample filtered through 0.45um prior to analysis.
E037.1/E051.1: Nitrite determined by colour. Sample filtered through 0.45um prior to analysis.

Laboratory Identification		94416	94419	94420	94421	94422	94423	94416d	94416r	94419s	lcs
Sample Identification		GW1	28	27	GW3	GW2	GW5	QC	QC	QC	QC
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		13/6/07	13/6/07	13/6/07	13/6/07	13/6/07	13/6/07	--	--	--	--
Laboratory Extraction (Preparation) Date		14/6/07	14/6/07	14/6/07	14/6/07	14/6/07	14/6/07	14/6/07	--	14/6/07	14/6/07
Laboratory Analysis Date		21/6/07	21/6/07	21/6/07	21/6/07	21/6/07	21/6/07	21/6/07	--	21/6/07	14/6/07
Method : E036.1/E050.1											
Ammonia as N	**EQL**										
Ammonia	0.01	1.33	0.02	<0.01	0.04	0.13	1.42	1.42	7%	84%	94%

Results expressed in mg/l unless otherwise specified

Comments:

E036.1/E050.1: Determined by colour. Sample filtered through 0.45um prior to analysis.

Laboratory Identification		mb									
Sample Identification		QC									
Depth (m)		--									
Sampling Date recorded on COC		--									
Laboratory Extraction (Preparation) Date		14/6/07									
Laboratory Analysis Date		14/6/07									
Method : E036.1/E050.1											
Ammonia as N	**EQL**										
Ammonia	0.01	<0.01									

Results expressed in mg/l unless otherwise specified

Comments:

E036.1/E050.1: Determined by colour. Sample filtered through 0.45um prior to analysis.

Laboratory Identification		**94416**	**94419**	**94420**	**94421**	**94422**	**94423**	**94416d**	**94416r**	**94420s**	**lcs**
Sample Identification		GW1	28	27	GW3	GW2	GW5	QC	QC	QC	QC
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		13/6/07	13/6/07	13/6/07	13/6/07	13/6/07	13/6/07	--	--	--	--
Laboratory Extraction (Preparation) Date		14/6/07	14/6/07	14/6/07	14/6/07	14/6/07	14/6/07	14/6/07	--	14/6/07	14/6/07
Laboratory Analysis Date		19/6/07	19/6/07	19/6/07	19/6/07	19/6/07	19/6/07	19/6/07	--	19/6/07	15/6/07
Method : E020.1/E030.1											
Major cations	**EQL**										
Calcium	0.1	19	105	170	2.8	17	43	19	0%	#	101%
Magnesium	0.1	20	4.9	5.2	3.0	36	17	20	0%	104%	103%
Sodium	0.1	66	33	13	21	91	42	64	3%	103%	110%
Potassium	0.1	11	8.6	5.5	1.8	4.5	19	11	0%	101%	101%

Results expressed in mg/l unless otherwise specified

Comments: # Percent recovery not available due to significant background levels of analyte in sample.

E020.1/E030.1: Sample directly analysed by Flame AAS and/or ICP-OES.

Laboratory Identification		**mb**									
Sample Identification		QC									
Depth (m)		--									
Sampling Date recorded on COC		--									
Laboratory Extraction (Preparation) Date		14/6/07									
Laboratory Analysis Date		15/6/07									
Method : E020.1/E030.1											
Major cations	**EQL**										
Calcium	0.1	<0.1									
Magnesium	0.1	<0.1									
Sodium	0.1	<0.1									
Potassium	0.1	<0.1									

Results expressed in mg/l unless otherwise specified

Comments: # Percent recovery not available due to significant background levels of analyte in sample.

E020.1/E030.1: Sample directly analysed by Flame AAS and/or ICP-OES.

Quality, Service, Support

Report Date : 19/06/2007
Report Time : 10:27:54AM

Sample **Receipt** Notice (SRN) for **E032494**

Client Details		Laboratory Reference Information	
Client Name:	HLA - Envirosciences Pty Limited	**Please have this information ready when contacting Labmark.**	
Client Phone:	02 8484 8999		
Client Fax:	02 8484 8989	**Laboratory Report:**	**E032494**
Contact Name:	Brian Tripolone	**Quotation Number:**	Q0271.ES
Contact Email:	Brian.Tripolone@hla-enviro.com.au	**Laboratory Address:**	Unit 1, 8 Leighton Pl. Asquith NSW 2077
Client Address:	PO Box 726 Pymble NSW 2073	**Phone:**	61 2 9476 6533
		Fax:	61 2 9476 8219
Project Name:	Green Square	**Sample Receipt Contact:**	Jakleen El Galada
Project Number:	S407580212	**Email:**	jakleen.galada@labmark.com.au
CoC Number:	- Not provided -	**Reporting Contact:**	Jyothi Lal
Purchase Order:	- Not provided -	**Email:**	jyothi.lal@labmark.com.au
Surcharge:	No surcharge applied (results by 6:30pm on due date)		
Sample Matrix:	WATER		
Date Sampled (earliest date):	13/06/2007	**NATA Accreditation:**	13542
Date Samples Received:	14/06/2007	**TGA GMP License:**	185-336 (Sydney)
Date Sample Receipt Notice issued:	19/06/2007	**APVMA License:**	6105 (Sydney)
Date Preliminary Report Due:	20/06/2007	**AQIS Approval:**	NO356 (Sydney)
		AQIS Entry Permit:	200521534 (Sydney)

Reporting Requirements: Electronic Data Download required: Yes

Sample Condition: COC received with samples. Report number and lab ID's defined on COC.
Samples received partly damaged. Refer to comments for details .
Samples received with cooling media: Crushed ice .
Samples received chilled.
Security seals not required. Direct Labmark's custody taken .
Sample container & chemical preservation suitable .

Comments: SRN reissued. Samples received and added as per client's request on 18/06/07. Sample D01 forwarded to ALS. GW28 and 5 had one broken amber in transit. Client informed.

Holding Times: Date received allows for sufficient time to meet Technical Holding Times.

Preservation: Chemical preservation of samples satisfactory for requested analytes.

Important Notes:

LabMark shall responsibly dispose of spent customer soil and water samples which includes the disintegration of the sample label. A sample disposal fee of $1.00 is applicable on all samples received by the laboratory regardless of whether they have undergone analytical testing. Sample disposal of environmental samples shall be 31 days (water) and 3 months (soil, HN03 preserved samples) after laboratory receipt, unless otherwise requested in writing by the client. Samples requested to be held in non-refrigerated storage shall incur $5.00/ sample/ 3 months. Additional refrigerated storage shall incur $30/ sample/ 3 months. Combination prices apply only if requested. Transfer of report ownership from LabMark to the client shall occur once full and final payment has been settled and verified. All report copies may be retracted where full payment does not occur within the agreed settlement period.

Analysis comments:

Subcontracted Analyses:

Thank you for choosing Labmark to analyse your project samples.
Additional information on www.labmark.com.au

Report Date : 19/06/2007
Report Time : 10:27:54AM

Quality, Service, Support

Sample **Receipt** Notice (SRN) for **E032494**

The table below represents LabMark's understanding and interpretation of the customer supplied sample COC request. Please confirm that your COC request has been entered correctly. Due to THT and TAT requirements, testing shall commence immediately as per this table, unless the customer intervenes with a correction prior to testing.

GRID REVIEW TABLE

No.	Date	Depth	Client Sample ID	Requested Analysis: BTEX by P&T	Major cations	Chloride	Fluoride	Filtered mercury	Filtered metals (M7)	Nitrite as N	Nitrate as N	NOx (as N)	Polychlorinated Biphenyls (PCB)	PREP Not Reported	Sulphate	Semivolatile Organic Compounds (SVOC)	Total alkalinity	Petroleum Hydrocarbons (TPH)	Volatile TPH by P&T (vTPH)				
94416	13/06		GW1	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				
94419	13/06		28	●	●	●	●	●	●	●	●	●		●	●		●		●				
94420	13/06		27	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				
94421	13/06		GW3	●	●	●	●			●	●	●	●	●	●	●	●	●	●				
94422	13/06		GW2	●	●	●	●			●	●	●	●	●	●	●	●	●	●				
94423	13/06		GW5	●	●	●	●	●	●	●	●	●		●	●		●		●				
94424	13/06		TS	●										●					●				
94425	13/06		TB	●										●					●				
94449	13/06		RB	●				●	●					●				●	●				
94766	13/06		GW3-a					●	●					●									
94767	13/06		GW3-b					●	●					●									
95178	15/06		GW5										●			●		●					
95179	15/06		28										●			●		●					
			Totals:	9	6	6	6	7	7	6	6	6	6	11	6	6	6	7	9				

Thank you for choosing Labmark to analyse your project samples.
Additional information on www.labmark.com.au

LabMark

Quality, Service, Support

Report Date : 19/06/2007
Report Time : 10:27:54AM

Sample **Receipt** Notice (SRN) for **E032494**

No.	Date	Depth	Client Sample ID	Requested Analysis: M8 - M7-F_W																			
94416	13/06		GW1	●																			
94419	13/06		28	●																			
94420	13/06		27	●																			
94423	13/06		GW5	●																			
94449	13/06		RB	●																			
94766	13/06		GW3-a	●																			
94767	13/06		GW3-b	●																			
			Totals:	7																			

Thank you for choosing Labmark to analyse your project samples.
Additional information on www.labmark.com.au

HLA

CHAIN OF CUSTODY

HLA - Enviroscience Pty Limited - Sydney
Level 5, 828 Pacific Hwy
PO Box 726 Pymble NSW 2073
Gordon NSW 2072 Australia
Tel: 61 2 8484 8999
Fax: 61 2 8484 8989
E-mail: mail@syd.hla-enviro.com.au

Laboratory Details

Lab Name: labMark
Lab Address
Contact Name:
Lab. Ref:
Tel:
Fax
Preliminary Report by:
Final Report by:
Lab Quote No:

Sampled By: BT
HLA Project No: S40758
Project Name:
PO No.

Specifications:

	Yes (tick)
1. Urgent TAT required? (please circle: 24hr 48hr _____days)	
2. Fast TAT Guarantee Required?	
3. Is any sediment layer present in waters to be excluded from extractions?	
4. % extraneous material removed from samples to be reported as per NEPM 5.1.1?	
5. Special storage requirements? (details: _____)	
6. Shell Quality Partnership:	
7. Report Format: Fax Hardcopy Email :	

Lab. ID	Sample ID	Sampling Date	Matrix: soil	water	other	Preservation: filt'ed	acid	ice	other	Container (No. & type)	Analysis Request: BTEX + TPH	Metals*	PAH's	OCP	OPP	PCB	SVOC	VOC	TPH	Lead	TCLP Heavy Metals	TCLP PAH's	Phenols	VHC	Speciated TPH	Other
95 ~~178~~	GW5	15/6		X				X		2 amber							X		X							
95 ~~179~~	28	15/6		X				X		2 amber							X		X							
AE 19/6/07																										

Metals Required (Delete elements not required): As Cd Cr Cu Ni Pb Zn Hg

Comments:

Lab Report No: E032~~596~~494

Esky ID

Relinquished by: BT Signed: Binat Thapalone Date: 18/6/07

Recieved by: Signed: Date:

Relinquished by: Signed: Date:

Recieved by: Signed: Date: 18/6

HLA

CHAIN OF CUSTODY

HLA - Enviroscences Pty Limited - Sydney
Level 5, 828 Pacific Hwy
PO Box 726 Pymble NSW 2073
Gordon NSW 2072 Australia
Tel: 61 2 8484 8999
Fax: 61 2 8484 8989
E-mail: mail@syd.hla-enviro.com.au

Laboratory Details
Lab Name: LabMark
Lab Address
Contact Name:
Lab. Ref:
Tel:
Fax
Preliminary Report by:
Final Report by:
Lab Quote No:

Sampled By: BT
HLA Project No: S40758021 2
Project Name: Green Square
PO No.

Specifications:

	Yes (tick)
1. Urgent TAT required? (please circle: 24hr 48hr _____days)	
2. Fast TAT Guarantee Required?	
3. Is any sediment layer present in waters to be excluded from extractions?	
4. % extraneous material removed from samples to be reported as per NEPM 5.1.1?	
5. Special storage requirements? (details: _____)	
6. Shell Quality Partnership:	
7. Report Format: ☐ Fax ☐ Hardcopy ☑ Email :	

Analysis Request

Lab. ID	Sample ID	Sampling Date	Matrix: soil	Matrix: water	Matrix: other	Preservation: filt'ed	Preservation: acid	Preservation: ice	Preservation: other	Container (No. & type)	BTEX + TPH	Metals*	PAH's	OCP	OPP	PCB	SVOC	VOC	TPH	Lead	TCLP Heavy Metals	TCLP PAH's	Phenols	VHC	Speciated TPH	Other: Major Cations	Other: Major Anions
94416	GW1	13/6		X				X			X	X		X		X	X								X	X
94419	28																									
94420	27																									
94421	GW3																									
94422	GW2																									
94423	GW5																									
94766	GW3-a											X														
94767	GW3-b											X														
94424	TS/TB 94425										X															
94449	RB										X	X														
Please send to ALS	DO1										X	X		X		X	X								X	X

Please request above analysis for DO1.

* Metals Required (Delete elements not required): As Cd Cr Cu Ni Pb Zn Hg

Comments: Please send DO1 to ALS - Please request above analysis for DO1.

Lab Report No. EO32444

Esky ID

Relinquished by: Brian Tripolone Signed: Brian Tripolone Date: 13/6

Recieved by: Signed: Date:

Relinquished by: Signed: Date:

Recieved by: Leanne Signed: Labmark Date: 14/6

HLA

Environmental Division
Sydney
Work Order
ES0707978

HLA - Enviroscences Pty Limited - Sydney
Level 5, 828 Pacific Hwy
PO Box 726 Pymble NSW 2073
Gordon NSW 2072 Australia
Tel: 61 2 8484 8999
Fax: 61 2 8484 8989
E-mail: mail@syd.hla-enviro.com.au

Laboratory Details
Lab Name: LabMark
Lab Address
Contact Name:
Lab. Ref:
Tel:
Fax
Preliminary F
Final Report
Lab Quote N

Telephone : 61-2-8784 8555

Sampled By: BT
HLA Project No: S407580212
Project Name: Green Square
PO

Specifications:

	Yes (tick)
1. Urgent TAT required? (please circle: 24hr 48hr _____days)	
2. Fast TAT Guarantee Required?	
3. Is any sediment layer present in waters to be excluded from extractions?	
4. % extraneous material removed from samples to be reported as per NEPM 5.1.1?	
5. Special storage requirements? (details: _____)	
6. Shell Quality Partnership:	
7. Report Format: ☐ Fax ☐ Hardcopy ☑ Email :	

Analysis Requ

Lab. ID	Sample ID	Sampling Date	Matrix: soil	Matrix: water	Matrix: other	Preservation: filt'ed	Preservation: acid	Preservation: ice	Preservation: other	Container (No. & type)	BTEX + TPH	Metals*	PAH's	OCP	OPP	PCB	SVOC	VOC	TPH	Lead	TCLP Heavy Metals	TCLP PAH's	Phenols	VHC	Speciated TPH	Major Cations	Major Anions
	GW1	13/6		X				X			X	X		X		X	X								X	X
	28																										
	27																										
	GW3																										
	GW2																										
	GW5																										
	TS/TB										X																
	RB										X	X															
Please send to ALS	DO1										X	X		X		X	X								X	X

* Metals Required (Delete elements not required): As Cd Cr Cu Ni Pb Zn Hg

Comments: Please send DO1 to ALS - Please request above analytes for DO1.

Lab Report No.
Esky ID

Relinquished by: Brian Tripolone
Signed: Brian Tripolone
Date: 13/6

Recieved by: R. DAWSON
Signed:
Date: 14/6
03:45
8.4°C

Relinquished by:
Signed:
Date:

Recieved by: Jeanne
Signed: Labmark
Date: 14/6

ALS Environmental

CERTIFICATE OF ANALYSIS

Client	: HLA-ENVIROSCIENCES PTY LTD	Laboratory	: Environmental Division Sydney	Page	: 1 of 9
Contact	: THE RESULTS ADDRESS	Contact	: Victor Kedicioglu	Work Order	: ES0707978
Address	: LEVEL 5, 828 PACIFIC HIGHWAY GORDON NSW AUSTRALIA 2072	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164		
E-mail	: syd.als@hla-enviro.com.au	E-mail	: Victor.Kedicioglu@alsenviro.com		
Telephone	: 84848999	Telephone	: 61-2-8784 8555		
Facsimile	: 84848989	Facsimile	: 61-2-8784 8500		
Project	: 5407580212	Quote number	: EN/004/07	Date received	: 14 Jun 2007
Order number	: - Not provided -			Date issued	: 21 Jun 2007
C-O-C number	: - Not provided -			No. of samples	- Received : 1
Site	: - Not provided -				Analysed : 1

ALSE - Excellence in Analytical Testing

NATA Accredited Laboratory 825

This document is issued in accordance with NATA's accreditation requirements.

Accredited for compliance with ISO/IEC 17025.

This document has been electronically signed by those names that appear on this report and are the authorised signatories. Electronic signing has been carried out in compliance with procedures specified in 21 CFR Part 11.

Signatory	Position	Department
Ankit Joshi		Inorganics - NATA 825 (10911 - Sydney)
PHALAK INTHAKESONE	Organics Co-ordinator	Organics - NATA 825 (10911 - Sydney)
Phyu Phyu Lwin	Spectroscopist	Inorganics - NATA 825 (10911 - Sydney)

Comments

This report for the ALSE reference ES0707978 supersedes any previous reports with this reference. Results apply to the sample as submitted. All pages of this report have been checked and approved for release.

This report contains the following information:

- **Analytical Results for Samples Submitted**
- **Surrogate Recovery Data**

The analytical procedures used by ALS Environmental have been developed from established internationally-recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported herein. Reference methods from which ALSE methods are based are provided in parenthesis.

When moisture determination has been performed, results are reported on a dry weight basis. When a reported 'less than' result is higher than the LOR, this may be due to primary sample extracts/digestion dilution and/or insuffient sample amount for analysis. Surrogate Recovery Limits are static and based on USEPA SW846 or ALS-QWI/EN38 (in the absence of specified USEPA limits). Where LOR of reported result differ from standard LOR, this may be due to high moisture, reduced sample amount or matrix interference. When date(s) and/or time(s) are shown bracketed, these have been assumed by the laboratory for process purposes. Abbreviations: CAS number = Chemical Abstract Services number, LOR = Limit of Reporting. * Indicates failed Surrogate Recoveries.

ALS Environmental

Analytical Results

				Client Sample ID :	D01			
				Sample Matrix Type / Description :	WATER			
				Sample Date / Time :	13 Jun 2007 15:00			
				Laboratory Sample ID :	ES0707978-001			
Analyte	CAS number	LOR	Units					
ED037P: Alkalinity by PC Titrator								
Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L		<1			
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L		<1			
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L		120			
Total Alkalinity as CaCO3		1	mg/L		120			
ED040F: Dissolved Major Anions								
Sulphate as SO4 2-	14808-79-8	1	mg/L		55			
ED045G: Chloride Discrete analyser								
Chloride	16887-00-6	1.0	mg/L		174			
ED093F: Dissolved Major Cations								
Calcium	7440-70-2	1	mg/L		25			
Magnesium	7439-95-4	1	mg/L		35			
Sodium	7440-23-5	1	mg/L		78			
Potassium	7440-09-7	1	mg/L		13			
EG020F: Dissolved Metals by ICP-MS								
Arsenic	7440-38-2	0.001	mg/L		0.009			
Cadmium	7440-43-9	0.0001	mg/L		<0.0001			
Chromium	7440-47-3	0.001	mg/L		<0.001			
Copper	7440-50-8	0.001	mg/L		0.001			
Lead	7439-92-1	0.001	mg/L		<0.001			
Nickel	7440-02-0	0.001	mg/L		0.030			
Zinc	7440-66-6	0.005	mg/L		0.045			
EG035F: Dissolved Mercury by FIMS								
Mercury	7439-97-6	0.0001	mg/L		<0.0001			
EN055: Ionic Balance								
Total Anions		0.01	meq/L		8.45			
Total Cations		0.01	meq/L		7.85			
Ionic Balance		0.01	%		3.69			
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls		1	µg/L		<1			
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.5	µg/L		<0.5			
Hexachlorobenzene (HCB)	118-74-1	0.5	µg/L		<0.5			
beta-BHC	319-85-7	0.5	µg/L		<0.5			
gamma-BHC	58-89-9	0.5	µg/L		<0.5			
delta-BHC	319-86-8	0.5	µg/L		<0.5			
Heptachlor	76-44-8	0.5	µg/L		<0.5			
Aldrin	309-00-2	0.5	µg/L		<0.5			

ALS Environmental

Analytical Results

				Client Sample ID :	D01			
				Sample Matrix Type / Description :	WATER			
				Sample Date / Time :	13 Jun 2007 15:00			
				Laboratory Sample ID :	ES0707978-001			
Analyte	CAS number	LOR	Units					
EP068A: Organochlorine Pesticides (OC)								
Heptachlor epoxide	1024-57-3	0.5	µg/L		<0.5			
trans-Chlordane	5103-74-2	0.5	µg/L		<0.5			
alpha-Endosulfan	959-98-8	0.5	µg/L		<0.5			
cis-Chlordane	5103-71-9	0.5	µg/L		<0.5			
Dieldrin	60-57-1	0.5	µg/L		<0.5			
4.4'-DDE	72-55-9	0.5	µg/L		<0.5			
Endrin	72-20-8	0.5	µg/L		<0.5			
beta-Endosulfan	33213-65-9	0.5	µg/L		<0.5			
4.4'-DDD	72-54-8	0.5	µg/L		<0.5			
Endrin aldehyde	7421-93-4	0.5	µg/L		<0.5			
Endosulfan sulfate	1031-07-8	0.5	µg/L		<0.5			
4.4'-DDT	50-29-3	2	µg/L		<2			
Endrin ketone	53494-70-5	0.5	µg/L		<0.5			
Methoxychlor	72-43-5	2	µg/L		<2			
EP075A: Phenolic Compounds								
Phenol	108-95-2	2	µg/L		<2			
2-Chlorophenol	95-57-8	2	µg/L		<2			
2-Methylphenol	95-48-7	2	µg/L		<2			
3- & 4-Methylphenol	1319-77-3	2	µg/L		<2			
2-Nitrophenol	88-75-5	2	µg/L		<2			
2.4-Dimethylphenol	105-67-9	2	µg/L		<2			
2.4-Dichlorophenol	120-83-2	2	µg/L		<2			
2.6-Dichlorophenol	87-65-0	2	µg/L		<2			
4-Chloro-3-Methylphenol	59-50-7	2	µg/L		<2			
2.4.6-Trichlorophenol	88-06-2	2	µg/L		<2			
2.4.5-Trichlorophenol	95-95-4	2	µg/L		<2			
Pentachlorophenol	87-86-5	4	µg/L		<4			
EP075B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	2	µg/L		<2			
2-Methylnaphthalene	91-57-6	2	µg/L		<2			
2-Chloronaphthalene	91-58-7	2	µg/L		<2			
Acenaphthylene	208-96-8	2	µg/L		<2			
Acenaphthene	83-32-9	2	µg/L		<2			
Fluorene	86-73-7	2	µg/L		<2			
Phenanthrene	85-01-8	2	µg/L		<2			
Anthracene	120-12-7	2	µg/L		<2			
Fluoranthene	206-44-0	2	µg/L		<2			

ALS Environmental

Analytical Results

				Client Sample ID :	D01			
				Sample Matrix Type / Description :	WATER			
				Sample Date / Time :	13 Jun 2007 15:00			
				Laboratory Sample ID :	ES0707978-001			
Analyte	*CAS number*	*LOR*	*Units*					
EP075B: Polynuclear Aromatic Hydrocarbons								
Pyrene	129-00-0	2	µg/L		<2			
N-2-Fluorenyl Acetamide	53-96-3	2	µg/L		<2			
Benz(a)anthracene	56-55-3	2	µg/L		<2			
Chrysene	218-01-9	2	µg/L		<2			
Benzo(b) & Benzo(k)fluoranthene	205-99-2 207-08-9	4	µg/L		<4			
7.12-Dimethylbenz(a)anthracene	57-97-6	2	µg/L		<2			
Benzo(a)pyrene	50-32-8	2	µg/L		<2			
3-Methylcholanthrene	56-49-5	2	µg/L		<2			
Indeno(1.2.3.cd)pyrene	193-39-5	2	µg/L		<2			
Dibenz(a.h)anthracene	53-70-3	2	µg/L		<2			
Benzo(g.h.i)perylene	191-24-2	2	µg/L		<2			
EP075C: Phthalate Esters								
Dimethyl phthalate	131-11-3	2	µg/L		<2			
Diethyl phthalate	84-66-2	2	µg/L		<2			
Di-n-butyl phthalate	84-74-2	2	µg/L		<2			
Butyl benzyl phthalate	85-68-7	2	µg/L		<2			
bis(2-ethylhexyl) phthalate	117-81-7	20	µg/L		<20			
Di-n-octylphthalate	117-84-0	2	µg/L		<2			
EP075D: Nitrosamines								
N-Nitrosomethylethylamine	10595-95-6	2	µg/L		<2			
N-Nitrosodiethylamine	55-18-5	2	µg/L		<2			
N-Nitrosopyrrolidine	930-55-2	4	µg/L		<4			
N-Nitrosomorpholine	59-89-2	2	µg/L		<2			
N-Nitrosodi-n-propylamine	621-64-7	2	µg/L		<2			
N-Nitrosopiperidine	100-75-4	2	µg/L		<2			
N-Nitrosodibutylamine	924-16-3	2	µg/L		<2			
N-Nitrosodiphenyl & Diphenylamine	86-30-6 122-39-4	4	µg/L		<4			
Methapyrilene	91-80-5	2	µg/L		<2			
EP075E: Nitroaromatics and Ketones								
2-Picoline	109-06-8	2	µg/L		<2			
Acetophenone	98-86-2	2	µg/L		<2			
Nitrobenzene	98-95-3	2	µg/L		<2			
Isophorone	78-59-1	2	µg/L		<2			
2.6-Dinitrotoluene	606-20-2	4	µg/L		<4			
2.4-Dinitrotoluene	121-14-2	4	µg/L		<4			

ALS Environmental

Analytical Results

				Client Sample ID :	D01			
				Sample Matrix Type / Description :	WATER			
				Sample Date / Time :	13 Jun 2007 15:00			
				Laboratory Sample ID :	ES0707978-001			
Analyte	*CAS number*	*LOR*	*Units*					
EP075E: Nitroaromatics and Ketones								
1-Naphthylamine	134-32-7	2	µg/L		<2			
4-Nitroquinoline-N-oxide	56-57-5	2	µg/L		<2			
5-Nitro-o-toluidine	99-55-8	2	µg/L		<2			
Azobenzene	103-33-3	2	µg/L		<2			
1.3.5-Trinitrobenzene	99-35-4	2	µg/L		<2			
Phenacetin	62-44-2	2	µg/L		<2			
4-Aminobiphenyl	92-67-1	2	µg/L		<2			
Pentachloronitrobenzene	82-68-8	2	µg/L		<2			
Pronamide	23950-58-5	2	µg/L		<2			
Dimethylaminoazobenzene	60-11-7	2	µg/L		<2			
Chlorobenzilate	510-15-6	2	µg/L		<2			
EP075F: Haloethers								
Bis(2-chloroethyl) ether	111-44-4	2	µg/L		<2			
Bis(2-chloroethoxy) methane	111-91-1	2	µg/L		<2			
4-Chlorophenyl phenyl ether	7005-72-3	2	µg/L		<2			
4-Bromophenyl phenyl ether	101-55-3	2	µg/L		<2			
EP075G: Chlorinated Hydrocarbons								
1.4-Dichlorobenzene	106-46-7	2	µg/L		<2			
1.3-Dichlorobenzene	541-73-1	2	µg/L		<2			
1.2-Dichlorobenzene	95-50-1	2	µg/L		<2			
Hexachloroethane	67-72-1	2	µg/L		<2			
1.2.4-Trichlorobenzene	120-82-1	2	µg/L		<2			
Hexachloropropylene	1888-71-7	2	µg/L		<2			
Hexachlorobutadiene	87-68-3	2	µg/L		<2			
Hexachlorocyclopentadiene	77-47-4	10	µg/L		<10			
Pentachlorobenzene	608-93-5	2	µg/L		<2			
Hexachlorobenzene (HCB)	118-74-1	4	µg/L		<4			
EP075H: Anilines and Benzidines								
Aniline	62-53-3	2	µg/L		<2			
4-Chloroaniline	106-47-8	2	µg/L		<2			
2-Nitroaniline	88-74-4	4	µg/L		<4			
3-Nitroaniline	99-09-2	4	µg/L		<4			
Dibenzofuran	132-64-9	2	µg/L		<2			
4-Nitroaniline	100-01-6	2	µg/L		<2			
Carbazole	86-74-8	2	µg/L		<2			
3.3'-Dichlorobenzidine	91-94-1	2	µg/L		<2			

ALS Environmental

Analytical Results

	Client Sample ID :	D01				
	Sample Matrix Type / Description :	WATER				
	Sample Date / Time :	13 Jun 2007 15:00				
	Laboratory Sample ID :	ES0707978-001				
Analyte	CAS number	LOR	Units			
EP075I: Organochlorine Pesticides						
alpha-BHC	319-84-6	2	µg/L	<2		
beta-BHC	319-85-7	2	µg/L	<2		
gamma-BHC	58-89-9	2	µg/L	<2		
delta-BHC	319-86-8	2	µg/L	<2		
Heptachlor	76-44-8	2	µg/L	<2		
Aldrin	309-00-2	2	µg/L	<2		
Heptachlor epoxide	1024-57-3	2	µg/L	<2		
alpha-Endosulfan	959-98-8	2	µg/L	<2		
4.4'-DDE	72-55-9	2	µg/L	<2		
Dieldrin	60-57-1	2	µg/L	<2		
Endrin	72-20-8	2	µg/L	<2		
beta-Endosulfan	33213-65-9	2	µg/L	<2		
4.4'-DDD	72-54-8	2	µg/L	<2		
Endosulfan sulfate	1031-07-8	2	µg/L	<2		
4.4'-DDT	50-29-3	4	µg/L	<4		
EP075J: Organophosphorus Pesticides						
Dichlorvos	62-73-7	2	µg/L	<2		
Dimethoate	60-51-5	2	µg/L	<2		
Diazinon	333-41-5	2	µg/L	<2		
Chlorpyrifos-methyl	5598-13-0	2	µg/L	<2		
Malathion	121-75-5	2	µg/L	<2		
Fenthion	55-38-9	2	µg/L	<2		
Chlorpyrifos	2921-88-2	2	µg/L	<2		
Pirimphos-ethyl	23505-41-1	2	µg/L	<2		
Chlorfenvinphos	470-90-6	2	µg/L	<2		
Prothiofos	34643-46-4	2	µg/L	<2		
Ethion	563-12-2	2	µg/L	<2		
EP075K: Miscellaneous Compounds						
1.3.5-Trichlorobenzene	108-70-3	2	µg/L	<2		
1.2.4.5-Tetrachlorobenzene	95-94-3	2	µg/L	<2		
Methanesulfonate methyl	66-27-3	2	µg/L	<2		
Methanesulfonate ethyl	62-50-0	2	µg/L	<2		
cis-Isosafrole	17627-76-8	2	µg/L	<2		
trans-Isosafrole	4043-71-4	2	µg/L	<2		
Safrole	94-59-7	2	µg/L	<2		
Diallate	2303-16-4	2	µg/L	<2		
2.3.4.6-Tetrachlorophenol	58-90-2	2	µg/L	<2		

ALS Environmental

Analytical Results

				Client Sample ID :	D01			
				Sample Matrix Type / Description :	WATER			
				Sample Date / Time :	13 Jun 2007 15:00			
				Laboratory Sample ID :	ES0707978-001			
Analyte	*CAS number*	*LOR*	*Units*					
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction		20	µg/L		<20			
C10 - C14 Fraction		50	µg/L		70			
C15 - C28 Fraction		100	µg/L		400			
C29 - C36 Fraction		50	µg/L		100			
EP080: BTEX								
Benzene	71-43-2	1	µg/L		<1			
Toluene	108-88-3	2	µg/L		<2			
Ethylbenzene	100-41-4	2	µg/L		<2			
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L		<2			
ortho-Xylene	95-47-6	2	µg/L		<2			
EP066S: PCB Surrogate								
Decachlorobiphenyl	2051-24-3	0.1	%		123			
EP068S: Organochlorine Pesticide Surrogate								
Dibromo-DDE	21655-73-2	0.1	%		126			
EP068T: Organophosphorus Pesticide Surrogate								
DEF	78-48-8	0.1	%		110			
EP075S: Acid Extractable Surrogates								
2-Fluorophenol	367-12-4	0.1	%		113			
Phenol-d6	13127-88-3	0.1	%		26.7			
2-Chlorophenol-D4	93951-73-6	0.1	%		87.6			
2.4.6-Tribromophenol	118-79-6	0.1	%		111			
EP075T: Base/Neutral Extractable Surrogates								
Nitrobenzene-D5	4165-60-0	0.1	%		88.8			
1.2-Dichlorobenzene-D4	2199-69-1	0.1	%		86.8			
2-Fluorobiphenyl	321-60-8	0.1	%		89.6			
Anthracene-d10	1719-06-8	0.1	%		93.2			
4-Terphenyl-d14	1718-51-0	0.1	%		131			
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.1	%		100			
Toluene-D8	2037-26-5	0.1	%		107			
4-Bromofluorobenzene	460-00-4	0.1	%		105			

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Surrogate Control Limits

Matrix Type: WATER - Surrogate Control Limits ***Surrogate Control Limits***

Method name	*Analyte name*	*Lower Limit*	*Upper Limit*
EP066: Polychlorinated Biphenyls (PCB)			
EP066S: PCB Surrogate	Decachlorobiphenyl	10	164
EP068: Pesticides			
EP068S: Organochlorine Pesticide Surrogate	Dibromo-DDE	10	136
EP068T: Organophosphorus Pesticide Surrogate	DEF	10	136
EP075: Semivolatile Organic Compounds			
EP075S: Acid Extractable Surrogates	2-Fluorophenol	21	100
	Phenol-d6	10	94
	2-Chlorophenol-D4	23	134
	2,4,6-Tribromophenol	10	123
EP075T: Base/Neutral Extractable Surrogates	Nitrobenzene-D5	35	114
	1,2-Dichlorobenzene-D4	32	129
	2-Fluorobiphenyl	43	116
	Anthracene-d10	27	133
	4-Terphenyl-d14	33	141
EP080: TPH Volatiles/BTEX			
EP080S: TPH(V)/BTEX Surrogates	1,2-Dichloroethane-D4	80	120
	Toluene-D8	88	110
	4-Bromofluorobenzene	86	115

ALS Environmental

QUALITY CONTROL REPORT

Client	:	**HLA-ENVIROSCIENCES PTY LTD**	**Laboratory**	:	Environmental Division Sydney	**Page**	: **1 of 18**
Contact	:	THE RESULTS ADDRESS	**Contact**	:	Victor Kedicioglu		
Address	:	LEVEL 5, 828 PACIFIC HIGHWAY GORDON NSW AUSTRALIA 2072	**Address**	:	277-289 Woodpark Road Smithfield NSW Australia 2164	**Work order**	: **ES0707978**
						Amendment No.	:
Project	:	5407580212	**Quote number**	:	EN/004/07	**Date received**	: **14 Jun 2007**
Order number	:	- Not provided -				**Date issued**	: **21 Jun 2007**
C-O-C number	:	- Not provided -					
Site	:	- Not provided -					
E-mail	:	syd.als@hla-enviro.com.au	**E-mail**	:	Victor.Kedicioglu@alsenviro.com	**No. of samples**	
Telephone	:	84848999	**Telephone**	:	61-2-8784 8555	**Received**	: 1
Facsimile	:	84848989	**Facsimile**	:	61-2-8784 8500	**Analysed**	: 1

This final report for the ALSE work order reference ES0707978 supersedes any previous reports with this reference.

Results apply to the sample as submitted. All pages of this report have been checked and approved for release.

This report contains the following information:

- Laboratory Duplicates (DUP); Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Samples (LCS); Recovery and Acceptance Limits
- Matrix Spikes (MS); Recovery and Acceptance Limits

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Accredited for compliance with ISO/IED 17025

This document has been electronically signed by those names that appear on this report and are the authorised signatories. Electronic signing has been carried out in compliance with procedures specified in 21 CFR Part 11.

Signatory	Department
Ankit Joshi	Inorganics - NATA 825 (10911 - Sydney)
PHALAK INTHAKESONE	Organics - NATA 825 (10911 - Sydney)
Phyu Phyu Lwin	Inorganics - NATA 825 (10911 - Sydney)

Quality Control Report - Laboratory Duplicates (DUP)

The quality control term **Laboratory Duplicate** refers to an intralaboratory split sample randomly selected from the sample batch. Laboratory duplicates provide information on method precision and sample heterogeneity.
- Anonymous - Client Sample IDs refer to samples which are not specifically part of this work order but formed part of the QC process lot. *Abbreviations:* ***LOR*** = *Limit of Reporting,* ***RPD*** = *Relative Percent Difference.*
* Indicates failed QC. The permitted ranges for the RPD of Laboratory Duplicates (relative percent deviation) are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting:- Result < 10 times LOR, no limit - Result between 10 and 20 times LOR, 0% - 50% - Result > 20 times LOR, 0% - 20%

Matrix Type: WATER ***Laboratory Duplicates (DUP) Report***

Laboratory Sample ID	*Client Sample ID*	*Analyte name*	*LOR*	*Original Result*	*Duplicate Result*	*RPD*
ED037P: Alkalinity by PC Titrator						
ED037P: Alkalinity by PC Titrator - (QC Lot: 432669)				**mg/L**	**mg/L**	**%**
ES0707949-012	Anonymous	Hydroxide Alkalinity as CaCO3	1 mg/L	<1	<1	0.0
		Carbonate Alkalinity as CaCO3	1 mg/L	<1	<1	0.0
		Bicarbonate Alkalinity as CaCO3	1 mg/L	111	118	5.4
		Total Alkalinity as CaCO3	1 mg/L	111	118	5.4
ED040F: Dissolved Major Anions						
ED040F: Dissolved Major Anions - (QC Lot: 430802)				**mg/L**	**mg/L**	**%**
ES0707902-001	Anonymous	Sulphate as SO4 2-	1 mg/L	127	139	8.4
ES0707983-003	Anonymous	Sulphate as SO4 2-	1 mg/L	16	16	0.0
ED045G: Chloride Discrete analyser						
ED045G: Chloride Discrete analyser - (QC Lot: 431968)				**mg/L**	**mg/L**	**%**
ES0707976-001	Anonymous	Chloride	1.0 mg/L	40.3	41.1	2.0
ES0708002-001	Anonymous	Chloride	1.0 mg/L	1260	1260	0.05
ED093F: Dissolved Major Cations						
ED093F: Dissolved Major Cations - (QC Lot: 430805)				**mg/L**	**mg/L**	**%**
ES0707949-008	Anonymous	Calcium	1 mg/L	224	228	1.7
		Magnesium	1 mg/L	146	148	1.3
		Sodium	1 mg/L	58	60	3.4
		Potassium	1 mg/L	6	6	0.0
ES0707950-001	Anonymous	Calcium	1 mg/L	3	3	0.0
		Magnesium	1 mg/L	3	3	0.0
		Sodium	1 mg/L	28	29	0.0
		Potassium	1 mg/L	2	2	0.0
EG020F: Dissolved Metals by ICP-MS						
EG020F: Dissolved Metals by ICP-MS - (QC Lot: 431966)				**mg/L**	**mg/L**	**%**
EP0702401-005	Anonymous	Arsenic	0.001 mg/L	0.002	<0.001	0.0

Matrix Type: WATER

Laboratory Duplicates (DUP) Report

Laboratory Sample ID	Client Sample ID	Analyte name	LOR	Original Result	Duplicate Result	RPD
EG020F: Dissolved Metals by ICP-MS - continued						
EG020F: Dissolved Metals by ICP-MS - (QC Lot: 431966) - continued				mg/L	mg/L	%
EP0702401-005	Anonymous	Cadmium	0.0001 mg/L	<0.0001	<0.0001	0.0
		Chromium	0.001 mg/L	<0.001	<0.001	0.0
		Copper	0.001 mg/L	0.002	0.001	0.0
		Lead	0.001 mg/L	<0.001	<0.001	0.0
		Nickel	0.001 mg/L	0.019	0.020	0.0
		Zinc	0.005 mg/L	0.812	0.777	4.5
ES0707978-001	D01	Arsenic	0.001 mg/L	0.009	0.011	23.5
		Cadmium	0.0001 mg/L	<0.0001	<0.0001	0.0
		Chromium	0.001 mg/L	<0.001	<0.001	0.0
		Copper	0.001 mg/L	0.001	0.001	0.0
		Lead	0.001 mg/L	<0.001	<0.001	0.0
		Nickel	0.001 mg/L	0.030	0.030	0.0
		Zinc	0.005 mg/L	0.045	0.048	6.4
EG035F: Dissolved Mercury by FIMS						
EG035F: Dissolved Mercury by FIMS - (QC Lot: 431245)				mg/L	mg/L	%
EP0702379-001	Anonymous	Mercury	0.0001 mg/L	<0.0001	<0.0001	0.0
ES0707949-014	Anonymous	Mercury	0.0001 mg/L	<0.0001	<0.0001	0.0
EP080/071: Total Petroleum Hydrocarbons						
EP080/071: Total Petroleum Hydrocarbons - (QC Lot: 432015)				µg/L	µg/L	%
ES0708056-001	Anonymous	C6 - C9 Fraction	20 µg/L	<20	<20	0.0
ES0708056-003	Anonymous	C6 - C9 Fraction	20 µg/L	<20	<20	0.0
EP080: BTEX						
EP080: BTEX - (QC Lot: 432015)				µg/L	µg/L	%
ES0708056-001	Anonymous	Benzene	1 µg/L	<1	<1	0.0
		Toluene	2 µg/L	<2	<2	0.0
		Ethylbenzene	2 µg/L	<2	<2	0.0
		meta- & para-Xylene	2 µg/L	<2	<2	0.0
		ortho-Xylene	2 µg/L	<2	<2	0.0
ES0708056-003	Anonymous	Benzene	1 µg/L	<1	<1	0.0

Matrix Type: WATER

Laboratory Duplicates (DUP) Report

Laboratory Sample ID	*Client Sample ID*	*Analyte name*	*LOR*	*Original Result*	*Duplicate Result*	*RPD*
EP080: BTEX - continued						
EP080: BTEX - (QC Lot: 432015) - continued				µg/L	µg/L	%
ES0708056-003	Anonymous	Toluene	2 µg/L	<2	<2	0.0
		Ethylbenzene	2 µg/L	<2	<2	0.0
		meta- & para-Xylene	2 µg/L	<2	<2	0.0
		ortho-Xylene	2 µg/L	<2	<2	0.0

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Quality Control Report - Method Blank (MB) and Laboratory Control Samples (LCS)

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC type is to monitor potential laboratory contamination. The quality control term Laboratory Control Sample (LCS) refers to a known, interference free matrix spiked with target analytes or certified reference material. The purpose of this QC type is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of actual laboratory data. Flagged outliers on control limits for inorganics tests may be within the NEPM specified data quality objective of recoveries in the range of 70 to 130%. Where this occurs, no corrective action is taken. Abbreviations: LOR = Limit of reporting.

Matrix Type: WATER

Method Blank (MB) and Laboratory Control Samples (LCS) Report

		Method blank result	*Actual Results*		*Recovery Limits*	
			Spike concentration	*Spike Recovery*	*Dynamic Recovery Limits*	
Analyte name	*LOR*			*LCS*	*Low*	*High*
ED037P: Alkalinity by PC Titrator						
ED037P: Alkalinity by PC Titrator - (QC Lot: 432669)		mg/L	mg/L	%	%	%
Total Alkalinity as CaCO3	1 mg/L	----	200	91.8	80.2	108
ED040F: Dissolved Major Anions						
ED040F: Dissolved Major Anions - (QC Lot: 430802)		mg/L	mg/L	%	%	%
Sulphate as SO4 2-	1 mg/L	----	150	103	82.9	114
	1 mg/L	<1	1	----	----	----
ED045G: Chloride Discrete analyser						
ED045G: Chloride Discrete analyser - (QC Lot: 431968)		mg/L	mg/L	%	%	%
Chloride	1.0 mg/L	<1.0	----	----	----	----
	1 mg/L	----	50	101	83.7	124
	1 mg/L	----	250	106	83.7	124
ED093F: Dissolved Major Cations						
ED093F: Dissolved Major Cations - (QC Lot: 430805)		mg/L	mg/L	%	%	%
Calcium	1 mg/L	----	50	103	82.9	121
	1 mg/L	<1	----	----	----	----
Magnesium	1 mg/L	----	50	107	82.7	114
	1 mg/L	<1	----	----	----	----
Potassium	1 mg/L	<1	----	----	----	----
	1 mg/L	----	50	102	84.3	118
Sodium	1 mg/L	<1	----	----	----	----
	1 mg/L	----	50	97.4	77.4	113
EG020F: Dissolved Metals by ICP-MS						
EG020F: Dissolved Metals by ICP-MS - (QC Lot: 431966)		mg/L	mg/L	%	%	%
Arsenic	0.001 mg/L	----	0.1	100	70	130
	0.001 mg/L	<0.001	----	----	----	----

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Matrix Type: WATER

Method Blank (MB) and Laboratory Control Samples (LCS) Report

Analyte name	*LOR*	*Method blank result*	*Actual Results*		*Recovery Limits*	
			Spike concentration	*Spike Recovery*	*Dynamic Recovery Limits*	
				LCS	*Low*	*High*
EG020F: Dissolved Metals by ICP-MS - continued						
EG020F: Dissolved Metals by ICP-MS - (QC Lot: 431966) - continued		mg/L	mg/L	%	%	%
Cadmium	0.0001 mg/L	----	0.1	91.6	70	130
	0.0001 mg/L	<0.0001	----	----	----	----
Chromium	0.001 mg/L	----	0.1	88.8	70	130
	0.001 mg/L	<0.001	----	----	----	----
Copper	0.001 mg/L	----	0.1	87.8	70	130
	0.001 mg/L	<0.001	----	----	----	----
Lead	0.001 mg/L	<0.001	----	----	----	----
	0.001 mg/L	----	0.1	94.9	70	130
Nickel	0.001 mg/L	<0.001	----	----	----	----
	0.001 mg/L	----	0.1	88.6	70	130
Zinc	0.005 mg/L	<0.005	----	----	----	----
	0.005 mg/L	----	0.1	94.8	70	130
EG035F: Dissolved Mercury by FIMS						
EG035F: Dissolved Mercury by FIMS - (QC Lot: 431245)		mg/L	mg/L	%	%	%
Mercury	0.0001 mg/L	<0.0001	----	----	----	----
	0.0001 mg/L	----	0.010	98.9	80.5	117
EP066: Polychlorinated Biphenyls (PCB)						
EP066: Polychlorinated Biphenyls (PCB) - (QC Lot: 430771)		µg/L	µg/L	%	%	%
Total Polychlorinated biphenyls	1 µg/L	<1	----	----	----	----
	1 µg/L	----	10	70.1	61.6	107
EP068A: Organochlorine Pesticides (OC)						
EP068A: Organochlorine Pesticides (OC) - (QC Lot: 430769)		µg/L	µg/L	%	%	%
4,4'-DDD	0.5 µg/L	<0.5	----	----	----	----
	0.5 µg/L	----	5	107	68.2	117
4,4'-DDE	0.5 µg/L	<0.5	----	----	----	----
	0.5 µg/L	----	5	102	68.9	114
4,4'-DDT	2 µg/L	<2	----	----	----	----
	2.0 µg/L	----	5	94.4	57.6	123

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Matrix Type: WATER

Method Blank (MB) and Laboratory Control Samples (LCS) Report

Analyte name	*LOR*	*Method blank result*	*Actual Results*		*Recovery Limits*	
			Spike concentration	*Spike Recovery*	*Dynamic Recovery Limits*	
				LCS	*Low*	*High*
EP068A: Organochlorine Pesticides (OC) - continued						
EP068A: Organochlorine Pesticides (OC) - (QC Lot: 430769) - continued		µg/L	µg/L	%	%	%
Aldrin	0.5 µg/L	----	5	105	68.5	114
	0.5 µg/L	<0.5	----	----	----	----
alpha-BHC	0.5 µg/L	----	5	94.8	59.5	123
	0.5 µg/L	<0.5	----	----	----	----
alpha-Endosulfan	0.5 µg/L	----	5	99.0	68.5	116
	0.5 µg/L	<0.5	----	----	----	----
beta-BHC	0.5 µg/L	<0.5	----	----	----	----
	0.5 µg/L	----	5	94.8	59.3	122
beta-Endosulfan	0.5 µg/L	<0.5	----	----	----	----
	0.5 µg/L	----	5	104	68	117
cis-Chlordane	0.5 µg/L	<0.5	----	----	----	----
	0.5 µg/L	----	5	97.6	66.5	117
delta-BHC	0.5 µg/L	----	5	104	68	116
	0.5 µg/L	<0.5	----	----	----	----
Dieldrin	0.5 µg/L	<0.5	----	----	----	----
	0.5 µg/L	----	5	104	68.8	116
Endosulfan sulfate	0.5 µg/L	----	5	102	65.9	119
	0.5 µg/L	<0.5	----	----	----	----
Endrin	0.5 µg/L	<0.5	----	----	----	----
	0.5 µg/L	----	5	100	66.2	122
Endrin aldehyde	0.5 µg/L	----	5	111	66.6	117
	0.5 µg/L	<0.5	----	----	----	----
Endrin ketone	0.5 µg/L	<0.5	----	----	----	----
	0.5 µg/L	----	5	111	65	118
gamma-BHC	0.5 µg/L	----	5	105	59.1	121
	0.5 µg/L	<0.5	----	----	----	----
Heptachlor	0.5 µg/L	----	5	94.7	67.1	116
	0.5 µg/L	<0.5	----	----	----	----
Heptachlor epoxide	0.5 µg/L	<0.5	----	----	----	----
	0.5 µg/L	----	5	102	69.8	113

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Matrix Type: WATER

Method Blank (MB) and Laboratory Control Samples (LCS) Report

Analyte name	LOR	Method blank result	Actual Results: Spike concentration	Actual Results: Spike Recovery LCS	Recovery Limits: Dynamic Recovery Limits Low	Recovery Limits: Dynamic Recovery Limits High
EP068A: Organochlorine Pesticides (OC) - continued						
EP068A: Organochlorine Pesticides (OC) - (QC Lot: 430769) - continued		µg/L	µg/L	%	%	%
Hexachlorobenzene (HCB)	0.5 µg/L	<0.5	----	----	----	----
	0.5 µg/L	----	5	97.3	58.4	121
Methoxychlor	2 µg/L	<2	----	----	----	----
	2.0 µg/L	----	5	91.6	49.6	134
trans-Chlordane	0.5 µg/L	<0.5	----	----	----	----
	0.5 µg/L	----	5	102	68.3	112
EP075A: Phenolic Compounds						
EP075A: Phenolic Compounds - (QC Lot: 430770)		µg/L	µg/L	%	%	%
2,4,5-Trichlorophenol	2 µg/L	<2	----	----	----	----
	2 µg/L	----	5	82.0	58	110
2,4,6-Trichlorophenol	2 µg/L	<2	----	----	----	----
	2 µg/L	----	5	99.9	57.6	112
2,4-Dichlorophenol	2 µg/L	----	5	78.7	61.9	109
	2 µg/L	<2	----	----	----	----
2,4-Dimethylphenol	2 µg/L	----	5	83.4	61.7	110
	2 µg/L	<2	----	----	----	----
2,6-Dichlorophenol	2 µg/L	<2	----	----	----	----
	2 µg/L	----	5	87.2	61.5	108
2-Chlorophenol	2 µg/L	----	5	81.8	63.1	105
	2 µg/L	<2	----	----	----	----
2-Methylphenol	2 µg/L	----	5	81.1	55.6	98.4
	2 µg/L	<2	----	----	----	----
2-Nitrophenol	2 µg/L	<2	----	----	----	----
	2 µg/L	----	5	57.0	55.4	110
3- & 4-Methylphenol	4 µg/L	----	10	90.4	45	96.2
	4 µg/L	<4	----	----	----	----
4-Chloro-3-Methylphenol	2 µg/L	<2	----	----	----	----
	2 µg/L	----	5	89.3	61.4	107
Pentachlorophenol	4 µg/L	----	10	18.8	2.39	110
	4 µg/L	<4	----	----	----	----

ALS Environmental

Matrix Type: WATER

Method Blank (MB) and Laboratory Control Samples (LCS) Report

Analyte name	LOR	Method blank result	Actual Results: Spike concentration	Actual Results: Spike Recovery LCS	Recovery Limits: Dynamic Recovery Limits Low	Recovery Limits: Dynamic Recovery Limits High
EP075A: Phenolic Compounds - continued						
EP075A: Phenolic Compounds - (QC Lot: 430770) - continued		µg/L	µg/L	%	%	%
Phenol	2 µg/L	----	5	34.6	25.5	64.1
	2 µg/L	<2	----	----	----	----
EP075B: Polynuclear Aromatic Hydrocarbons						
EP075B: Polynuclear Aromatic Hydrocarbons - (QC Lot: 430770)		µg/L	µg/L	%	%	%
2-Chloronaphthalene	2 µg/L	----	5	94.5	60.6	106
	2 µg/L	<2	----	----	----	----
2-Methylnaphthalene	2 µg/L	----	5	91.5	59	108
	2 µg/L	<2	----	----	----	----
3-Methylcholanthrene	2 µg/L	----	5	96.2	60.1	110
	2 µg/L	<2	----	----	----	----
7,12-Dimethylbenz(a)anthracene	2 µg/L	----	5	91.9	49.8	107
	2 µg/L	<2	----	----	----	----
Acenaphthene	2 µg/L	----	5	94.1	65	108
	2 µg/L	<2	----	----	----	----
Acenaphthylene	2 µg/L	<2	----	----	----	----
	2 µg/L	----	5	86.8	64	108
Anthracene	2 µg/L	<2	----	----	----	----
	2 µg/L	----	5	84.6	65.8	108
Benz(a)anthracene	2 µg/L	<2	----	----	----	----
	2 µg/L	----	5	66.6	62.2	112
Benzo(a)pyrene	2 µg/L	----	5	105	59.2	112
	2 µg/L	<2	----	----	----	----
Benzo(b) & Benzo(k)fluoranthene	4 µg/L	----	10	97.4	60.1	111
	4 µg/L	<4	----	----	----	----
Benzo(g,h,i)perylene	2 µg/L	<2	----	----	----	----
	2 µg/L	----	5	90.4	60.6	110
Chrysene	2 µg/L	----	5	66.8	59.3	114
	2 µg/L	<2	----	----	----	----
Dibenz(a,h)anthracene	2 µg/L	----	5	82.3	57.2	109
	2 µg/L	<2	----	----	----	----

Matrix Type: WATER

Method Blank (MB) and Laboratory Control Samples (LCS) Report

Analyte name	*LOR*	*Method blank result*	*Actual Results*		*Recovery Limits*	
			Spike concentration	*Spike Recovery*	*Dynamic Recovery Limits*	
				LCS	*Low*	*High*
EP075B: Polynuclear Aromatic Hydrocarbons - continued						
EP075B: Polynuclear Aromatic Hydrocarbons - (QC Lot: 430770) - continued		µg/L	µg/L	%	%	%
Fluoranthene	2 µg/L	<2	----	----	----	----
	2 µg/L	----	5	77.1	64.9	109
Fluorene	2 µg/L	----	5	91.2	65.2	107
	2 µg/L	<2	----	----	----	----
Indeno(1,2,3,cd)pyrene	2 µg/L	----	5	84.6	59.6	110
	2 µg/L	<2	----	----	----	----
N-2-Fluorenyl Acetamide	2 µg/L	----	5	77.5	59.7	110
	2 µg/L	<2	----	----	----	----
Naphthalene	2 µg/L	----	5	93.9	61	108
	2 µg/L	<2	----	----	----	----
Phenanthrene	2 µg/L	<2	----	----	----	----
	2 µg/L	----	5	80.7	66.7	108
Pyrene	2 µg/L	----	5	76.6	60.1	111
	2 µg/L	<2	----	----	----	----
EP075C: Phthalate Esters						
EP075C: Phthalate Esters - (QC Lot: 430770)		µg/L	µg/L	%	%	%
bis(2-ethylhexyl) phthalate	20 µg/L	----	5	108	72.8	135
	20 µg/L	<20	----	----	----	----
Butyl benzyl phthalate	2 µg/L	<2	----	----	----	----
	2 µg/L	----	5	79.4	61.2	114
Diethyl phthalate	2 µg/L	<2	----	----	----	----
	2 µg/L	----	5	94.4	67.3	111
Dimethyl phthalate	2 µg/L	<2	----	----	----	----
	2 µg/L	----	5	91.0	64.3	112
Di-n-butyl phthalate	2 µg/L	<2	----	----	----	----
	2 µg/L	----	5	102	68.4	122
Di-n-octylphthalate	2 µg/L	----	5	104	62.1	115
	2 µg/L	<2	----	----	----	----
EP075D: Nitrosamines						

ALS Environmental

Matrix Type: WATER

Method Blank (MB) and Laboratory Control Samples (LCS) Report

Analyte name	LOR	Method blank result	Actual Results: Spike concentration	Actual Results: Spike Recovery LCS	Recovery Limits: Dynamic Recovery Limits Low	Recovery Limits: Dynamic Recovery Limits High
EP075D: Nitrosamines - continued						
EP075D: Nitrosamines - (QC Lot: 430770)		µg/L	µg/L	%	%	%
Methapyrilene	2 µg/L	----	5	59.7	4.21	94
	2 µg/L	<2	----	----	----	----
N-Nitrosodibutylamine	2 µg/L	<2	----	----	----	----
	2 µg/L	----	5	94.7	62.5	108
N-Nitrosodiethylamine	2 µg/L	----	5	95.6	60.6	113
	2 µg/L	<2	----	----	----	----
N-Nitrosodi-n-propylamine	2 µg/L	----	5	70.0	63.5	108
	2 µg/L	<2	----	----	----	----
N-Nitrosodiphenyl & Diphenylamine	4 µg/L	----	10	97.2	64.6	112
	4 µg/L	<4	----	----	----	----
N-Nitrosomethylethylamine	2 µg/L	<2	----	----	----	----
	2 µg/L	----	5	75.4	39.5	95.9
N-Nitrosomorpholine	2 µg/L	<2	----	----	----	----
	2 µg/L	----	5	60.6	35.4	86.2
N-Nitrosopiperidine	2 µg/L	<2	----	----	----	----
	2 µg/L	----	5	95.3	61.7	107
N-Nitrosopyrrolidine	4 µg/L	----	5	62.1	23.7	82.1
	4 µg/L	<4	----	----	----	----
EP075E: Nitroaromatics and Ketones						
EP075E: Nitroaromatics and Ketones - (QC Lot: 430770)		µg/L	µg/L	%	%	%
1,3,5-Trinitrobenzene	2 µg/L	<2	----	----	----	----
	2 µg/L	----	5	57.0	39	105
1-Naphthylamine	2 µg/L	----	5	69.9	46.8	102
	2 µg/L	<2	----	----	----	----
2,4-Dinitrotoluene	4 µg/L	<4	----	----	----	----
	4 µg/L	----	5	79.0	59.5	109
2,6-Dinitrotoluene	4 µg/L	----	5	80.3	64.4	113
	4 µg/L	<4	----	----	----	----
2-Picoline	2 µg/L	----	5	27.7	11.4	100
	2 µg/L	<2	----	----	----	----

Matrix Type: WATER

Method Blank (MB) and Laboratory Control Samples (LCS) Report

Analyte name	LOR	Method blank result	Actual Results: Spike concentration	Actual Results: Spike Recovery LCS	Recovery Limits: Dynamic Recovery Limits Low	Recovery Limits: Dynamic Recovery Limits High
EP075E: Nitroaromatics and Ketones - continued						
EP075E: Nitroaromatics and Ketones - (QC Lot: 430770) - continued		µg/L	µg/L	%	%	%
4-Aminobiphenyl	2 µg/L	----	5	60.7	60.1	112
	2 µg/L	<2	----	----	----	----
4-Nitroquinoline-N-oxide	2 µg/L	<2	----	----	----	----
	2 µg/L	----	5	34.6	8.93	98.7
5-Nitro-o-toluidine	2 µg/L	----	5	87.8	58.3	106
	2 µg/L	<2	----	----	----	----
Acetophenone	2 µg/L	----	5	86.6	68.3	112
	2 µg/L	<2	----	----	----	----
Azobenzene	2 µg/L	<2	----	----	----	----
	2 µg/L	----	5	100	66	112
Chlorobenzilate	2 µg/L	<2	----	----	----	----
	2 µg/L	----	5	69.6	57.7	110
Dimethylaminoazobenzene	2 µg/L	<2	----	----	----	----
	2 µg/L	----	5	78.0	59.4	108
Isophorone	2 µg/L	----	5	90.8	67.6	111
	2 µg/L	<2	----	----	----	----
Nitrobenzene	2 µg/L	<2	----	----	----	----
	2 µg/L	----	5	89.6	68.3	112
Pentachloronitrobenzene	2 µg/L	<2	----	----	----	----
	2 µg/L	----	5	68.2	59	109
Phenacetin	2 µg/L	----	5	84.9	57.8	101
	2 µg/L	<2	----	----	----	----
Pronamide	2 µg/L	----	5	87.9	62.7	109
	2 µg/L	<2	----	----	----	----
EP075F: Haloethers						
EP075F: Haloethers - (QC Lot: 430770)		µg/L	µg/L	%	%	%
4-Bromophenyl phenyl ether	2 µg/L	----	5	85.6	61.6	108
	2 µg/L	<2	----	----	----	----
4-Chlorophenyl phenyl ether	2 µg/L	<2	----	----	----	----
	2 µg/L	----	5	91.3	64.7	109

ALS Environmental

Matrix Type: WATER

Method Blank (MB) and Laboratory Control Samples (LCS) Report

Analyte name	LOR	Method blank result	Actual Results: Spike concentration	Actual Results: Spike Recovery LCS	Recovery Limits: Dynamic Recovery Limits Low	Recovery Limits: Dynamic Recovery Limits High
EP075F: Haloethers - continued						
EP075F: Haloethers - (QC Lot: 430770) - continued		µg/L	µg/L	%	%	%
Bis(2-chloroethoxy) methane	2 µg/L	----	5	91.5	66.2	111
	2 µg/L	<2	----	----	----	----
Bis(2-chloroethyl) ether	2 µg/L	----	5	96.0	69.1	112
	2 µg/L	<2	----	----	----	----
EP075G: Chlorinated Hydrocarbons						
EP075G: Chlorinated Hydrocarbons - (QC Lot: 430770)		µg/L	µg/L	%	%	%
1,2,4-Trichlorobenzene	2 µg/L	----	5	89.1	42.9	115
	2 µg/L	<2	----	----	----	----
1,2-Dichlorobenzene	2 µg/L	<2	----	----	----	----
	2 µg/L	----	5	96.6	41.3	112
1,3-Dichlorobenzene	2 µg/L	----	5	107	39.1	113
	2 µg/L	<2	----	----	----	----
1,4-Dichlorobenzene	2 µg/L	<2	----	----	----	----
	2 µg/L	----	5	96.8	42	114
Hexachlorobenzene (HCB)	4 µg/L	<4	----	----	----	----
	4 µg/L	----	5	85.2	65.7	110
Hexachlorobutadiene	2 µg/L	----	5	88.8	37.4	116
	2 µg/L	<2	----	----	----	----
Hexachlorocyclopentadiene	10 µg/L	----	5	21.2	1.88	105
	10 µg/L	<10	----	----	----	----
Hexachloroethane	2 µg/L	----	5	71.4	31	114
	2 µg/L	<2	----	----	----	----
Hexachloropropylene	2 µg/L	----	5	43.3	23.8	111
	2 µg/L	<2	----	----	----	----
Pentachlorobenzene	2 µg/L	----	5	91.8	64.5	107
	2 µg/L	<2	----	----	----	----
EP075H: Anilines and Benzidines						
EP075H: Anilines and Benzidines - (QC Lot: 430770)		µg/L	µg/L	%	%	%

ALS Environmental

Matrix Type: WATER

Method Blank (MB) and Laboratory Control Samples (LCS) Report

Analyte name	LOR	Method blank result	Actual Results: Spike concentration	Actual Results: Spike Recovery LCS	Recovery Limits: Dynamic Recovery Limits Low	Recovery Limits: Dynamic Recovery Limits High
EP075H: Anilines and Benzidines - continued						
EP075H: Anilines and Benzidines - (QC Lot: 430770) - continued		µg/L	µg/L	%	%	%
2-Nitroaniline	4 µg/L	<4	----	----	----	----
	4 µg/L	----	5	91.9	60.9	110
3,3'-Dichlorobenzidine	2 µg/L	<2	----	----	----	----
	2 µg/L	----	5	66.8	60.3	119
3-Nitroaniline	4 µg/L	<4	----	----	----	----
	4 µg/L	----	5	84.1	51.5	96.9
4-Chloroaniline	2 µg/L	<2	----	----	----	----
	2 µg/L	----	5	58.0	44.4	106
4-Nitroaniline	2 µg/L	----	5	68.4	48.9	99.5
	2 µg/L	<2	----	----	----	----
Aniline	2 µg/L	<2	----	----	----	----
	2 µg/L	----	5	41.1	10.9	89.7
Carbazole	2 µg/L	----	5	88.2	64.3	107
	2 µg/L	<2	----	----	----	----
Dibenzofuran	2 µg/L	<2	----	----	----	----
	2 µg/L	----	5	92.6	65.3	108
EP075I: Organochlorine Pesticides						
EP075I: Organochlorine Pesticides - (QC Lot: 430770)		µg/L	µg/L	%	%	%
4,4'-DDD	2 µg/L	----	5	62.8	59.8	115
	2 µg/L	<2	----	----	----	----
4,4'-DDE	2 µg/L	----	5	89.7	64.1	111
	2 µg/L	<2	----	----	----	----
4,4'-DDT	4 µg/L	<4	----	----	----	----
	4 µg/L	----	5	50.6	41.3	114
Aldrin	2 µg/L	----	5	63.8	57	113
	2 µg/L	<2	----	----	----	----
alpha-BHC	2 µg/L	<2	----	----	----	----
	2 µg/L	----	5	74.1	64.3	110
alpha-Endosulfan	2 µg/L	<2	----	----	----	----
	2 µg/L	----	5	79.9	52.5	115

ALS Environmental

Matrix Type: WATER

Method Blank (MB) and Laboratory Control Samples (LCS) Report

Analyte name	LOR	Method blank result	Actual Results: Spike concentration	Actual Results: Spike Recovery LCS	Recovery Limits: Dynamic Recovery Limits Low	Recovery Limits: Dynamic Recovery Limits High
EP075I: Organochlorine Pesticides - continued						
EP075I: Organochlorine Pesticides - (QC Lot: 430770) - continued		µg/L	µg/L	%	%	%
beta-BHC	2 µg/L	<2	----	----	----	----
	2 µg/L	----	5	81.2	59	110
beta-Endosulfan	2 µg/L	<2	----	----	----	----
	2 µg/L	----	5	62.4	60.4	111
delta-BHC	2 µg/L	----	5	71.6	60.2	113
	2 µg/L	<2	----	----	----	----
Dieldrin	2 µg/L	<2	----	----	----	----
	2 µg/L	----	5	79.4	65	113
Endosulfan sulfate	2 µg/L	----	5	68.6	52.8	114
	2 µg/L	<2	----	----	----	----
Endrin	2 µg/L	<2	----	----	----	----
	2 µg/L	----	5	89.6	51.1	112
gamma-BHC	2 µg/L	<2	----	----	----	----
	2 µg/L	----	5	72.8	63.7	112
Heptachlor	2 µg/L	<2	----	----	----	----
	2 µg/L	----	5	63.6	57.9	108
Heptachlor epoxide	2 µg/L	----	5	73.9	60.3	112
	2 µg/L	<2	----	----	----	----
EP075J: Organophosphorus Pesticides						
EP075J: Organophosphorus Pesticides - (QC Lot: 430770)		µg/L	µg/L	%	%	%
Chlorfenvinphos	2 µg/L	----	6	77.4	44.6	95.8
	2 µg/L	<2	----	----	----	----
Chlorpyrifos	2 µg/L	<2	----	----	----	----
	2 µg/L	----	5	72.0	59.2	113
Chlorpyrifos-methyl	2 µg/L	----	5	62.0	54.1	116
	2 µg/L	<2	----	----	----	----
Diazinon	2 µg/L	----	5	69.3	54	116
	2 µg/L	<2	----	----	----	----
Dichlorvos	2 µg/L	<2	----	----	----	----
	2 µg/L	----	5	79.8	52	118

Matrix Type: WATER

Method Blank (MB) and Laboratory Control Samples (LCS) Report

Analyte name	*LOR*	*Method blank result*	*Actual Results*		*Recovery Limits*	
			Spike concentration	*Spike Recovery*	*Dynamic Recovery Limits*	
				LCS	*Low*	*High*
EP075J: Organophosphorus Pesticides - continued						
EP075J: Organophosphorus Pesticides - (QC Lot: 430770) - continued		µg/L	µg/L	%	%	%
Dimethoate	2 µg/L	----	5	58.0	46.8	114
	2 µg/L	<2	----	----	----	----
Ethion	2 µg/L	----	5	49.4	48.6	118
	2 µg/L	<2	----	----	----	----
Fenthion	2 µg/L	<2	----	----	----	----
	2 µg/L	----	5	73.3	50.1	117
Malathion	2 µg/L	----	5	84.2	57.6	118
	2 µg/L	<2	----	----	----	----
Pirimphos-ethyl	2 µg/L	<2	----	----	----	----
	2 µg/L	----	5	69.8	52.6	115
Prothiofos	2 µg/L	----	5	69.0	56.8	116
	2 µg/L	<2	----	----	----	----
EP075K: Miscellaneous Compounds						
EP075K: Miscellaneous Compounds - (QC Lot: 430770)		µg/L	µg/L	%	%	%
1,2,4,5-Tetrachlorobenzene	2 µg/L	----	5	94.0	52.5	109
	2 µg/L	<2	----	----	----	----
1,3,5-Trichlorobenzene	2 µg/L	----	5	89.6	40.9	110
	2 µg/L	<2	----	----	----	----
2,3,4,6-Tetrachlorophenol	2 µg/L	<2	----	----	----	----
cis-Isosafrole	2 µg/L	<2	----	----	----	----
	2 µg/L	----	5	90.1	61.7	106
Diallate	2 µg/L	<2	----	----	----	----
	2 µg/L	----	5	91.5	66.4	108
Methanesulfonate ethyl	2 µg/L	<2	----	----	----	----
	2 µg/L	----	5	84.5	54.4	103
Methanesulfonate methyl	2 µg/L	<2	----	----	----	----
	2 µg/L	----	5	112	41.3	119
Safrole	2 µg/L	<2	----	----	----	----
	2 µg/L	----	5	90.2	64.5	110

Matrix Type: WATER

Method Blank (MB) and Laboratory Control Samples (LCS) Report

Analyte name	*LOR*	*Method blank result*	*Actual Results*		*Recovery Limits*	
			Spike concentration	*Spike Recovery*	*Dynamic Recovery Limits*	
				LCS	*Low*	*High*
EP075K: Miscellaneous Compounds - continued						
EP075K: Miscellaneous Compounds - (QC Lot: 430770) - continued		µg/L	µg/L	%	%	%
trans-Isosafrole	2 µg/L	<2	----	----	----	----
	2 µg/L	----	5	98.0	57.3	114
EP080/071: Total Petroleum Hydrocarbons						
EP080/071: Total Petroleum Hydrocarbons - (QC Lot: 430772)		µg/L	µg/L	%	%	%
C10 - C14 Fraction	50 µg/L	----	200	71.0	58.9	131
	50 µg/L	<50	----	----	----	----
C15 - C28 Fraction	100 µg/L	<100	----	----	----	----
	100 µg/L	----	200	82.7	73.9	138
C29 - C36 Fraction	50 µg/L	----	200	93.1	62.7	131
	50 µg/L	<50	----	----	----	----
EP080/071: Total Petroleum Hydrocarbons - (QC Lot: 432015)		µg/L	µg/L	%	%	%
C6 - C9 Fraction	20 µg/L	----	260	75.8	75	127
	20 µg/L	<20	----	----	----	----
EP080: BTEX						
EP080: BTEX - (QC Lot: 432015)		µg/L	µg/L	%	%	%
Benzene	1 µg/L	<1	----	----	----	----
	1 µg/L	----	10	89.3	76.2	124
Ethylbenzene	2 µg/L	----	10	87.5	76.1	122
	2 µg/L	<2	----	----	----	----
meta- & para-Xylene	2 µg/L	----	10	87.2	75.7	123
	2 µg/L	<2	----	----	----	----
ortho-Xylene	2 µg/L	<2	----	----	----	----
	2 µg/L	----	10	86.7	77.9	121
Toluene	2 µg/L	<2	----	----	----	----
	2 µg/L	----	10	89.6	74.4	124

ALS Environmental

Quality Control Report - Matrix Spikes (MS)

The quality control term **Matrix Spike (MS)** refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC type is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQO's). 'Ideal' recovery ranges stated may be waived in the event of sample matrix interferences. - Anonymous - Client Sample IDs refer to samples which are not specifically part of this work order but formed part of the QC process lot. *Abbreviations:* ***LOR*** *= Limit of Reporting,* ***RPD*** *= Relative Percent Difference.*

* Indicates failed QC

Matrix Type: WATER

Matrix Spike (MS) Report

					Actual Results		Recovery Limits	
					Sample Result	Spike Recovery	Static Limits	
Analyte name	*Laboratory Sample ID*	*Client Sample ID*	*LOR*	*Spike Concentration*		*MS*	*Low*	*High*
ED045G: Chloride Discrete analyser								
ED045G: Chloride Discrete analyser - (QC Lot: 431968)				mg/L	mg/L	%	%	%
Chloride	ES0707976-001	Anonymous	1 mg/L	250	40.3	102	70	130
EG020F: Dissolved Metals by ICP-MS								
EG020F: Dissolved Metals by ICP-MS - (QC Lot: 431966)				mg/L	mg/L	%	%	%
Arsenic	EP0702401-005	Anonymous	0.001 mg/L	0.2	0.002	88.9	70	130
Cadmium			0.0001 mg/L	0.05	<0.0001	89.6	70	130
Chromium			0.001 mg/L	0.2	<0.001	87.4	70	130
Copper			0.001 mg/L	0.2	0.002	81.4	70	130
Lead			0.001 mg/L	0.2	<0.001	88.7	70	130
Nickel			0.001 mg/L	0.2	0.019	86.5	70	130
Zinc			0.005 mg/L	0.2	0.812	* Not Determined	70	130
EG035F: Dissolved Mercury by FIMS								
EG035F: Dissolved Mercury by FIMS - (QC Lot: 431245)				mg/L	mg/L	%	%	%
Mercury	EP0702379-001	Anonymous	0.0001 mg/L	0.0100	<0.0001	87.0	70	130
EP080/071: Total Petroleum Hydrocarbons								
EP080/071: Total Petroleum Hydrocarbons - (QC Lot: 432015)				µg/L	µg/L	%	%	%
C6 - C9 Fraction	ES0708056-001	Anonymous	20 µg/L	250	<20	110	70	130
EP080: BTEX								
EP080: BTEX - (QC Lot: 432015)				µg/L	µg/L	%	%	%
Benzene	ES0708056-001	Anonymous	1 µg/L	25	<1	114	70	130
Toluene			2 µg/L	25	<2	107	70	130
Ethylbenzene			2 µg/L	25	<2	109	70	130
meta- & para-Xylene			2 µg/L	25	<2	108	70	130
ortho-Xylene			2 µg/L	25	<2	109	70	130

ALS Environmental

INTERPRETIVE QUALITY CONTROL REPORT

Client	:	**HLA-ENVIROSCIENCES PTY LTD**	**Laboratory**	:	Environmental Division Sydney	**Page**	: **1 of 5**
Contact	:	THE RESULTS ADDRESS	**Contact**	:	Victor Kedicioglu		
Address	:	LEVEL 5, 828 PACIFIC HIGHWAY GORDON NSW AUSTRALIA 2072	**Address**	:	277-289 Woodpark Road Smithfield NSW Australia 2164	**Work order**	: **ES0707978**
						Amendment No.	:
Project	:	5407580212	**Quote number**	:	EN/004/07	**Date received**	: 14 Jun 2007
Order number	:	- Not provided -				**Date issued**	: 21 Jun 2007
C-O-C number	:	- Not provided -					
Site	:	- Not provided -					
E-mail	:	syd.als@hla-enviro.com.au	**E-mail**	:	Victor.Kedicioglu@alsenviro.com	**No. of samples**	
Telephone	:	84848999	**Telephone**	:	61-2-8784 8555	**Received**	: 1
Facsimile	:	84848989	**Facsimile**	:	61-2-8784 8500	**Analysed**	: 1

This Interpretive Quality Control Report was issued on 21 Jun 2007 for the ALS work order reference ES0707978 and supersedes any previous reports with this reference.
This report contains the following information:

- Analysis Holding Time Compliance
- Quality Control Type Frequency Compliance
- Summary of all Quality Control Outliers
- Brief Method Summaries

ALS Environmental

Interpretive Quality Control Report - Analysis Holding Time

The following report summarises extraction / preparation and analysis times and compares with recommended holding times. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. Information is also provided re the sample container (preservative) from which the sample aliquot was taken. Elapsed time to analysis represents time from sampling where no extraction / digestion is involved or time from extraction / digestion where this is present. For composite samples, sampling date/time is taken as that of the oldest sample contributing to that composite. Sample date/time for laboratory produced leaches are taken from the completion date/time of the leaching process. Outliers for holding time are based on USEPA SW846, APHA, AS and NEPM (1999). Failed outliers, refer to the 'Summary of Outliers'.

Matrix Type: WATER ***Analysis Holding Time and Preservation***

Method / **Container /** Client Sample ID(s)	**Date Sampled**	**Extraction / Preparation**			**Analysis**		
		Date extracted	Due for extraction	Pass?	Date analysed	Due for analysis	Pass?
ED037-P: Alkalinity by PC Titrator							
Clear Plastic Bottle - Natural							
D01	**13 Jun 2007**	**----**	----	----	**18 Jun 2007**	27 Jun 2007	Pass
ED040F: Major Anions - Filtered							
Clear Plastic Bottle - Natural							
D01	**13 Jun 2007**	**----**	----	----	**15 Jun 2007**	11 Jul 2007	Pass
ED045G: Chloride by Discrete Analyser							
Clear Plastic Bottle - Natural							
D01	**13 Jun 2007**	----	----	----	**18 Jun 2007**	11 Jul 2007	Pass
ED093F: Major Cations - Filtered							
Clear Plastic Bottle - Natural							
D01	**13 Jun 2007**	**----**	----	----	**15 Jun 2007**	11 Jul 2007	Pass
EG020A-F: Dissolved Metals by ICP-MS - Suite A							
Clear Plastic Bottle - Nitric Acid; Filtered							
D01	**13 Jun 2007**	**----**	----	----	**18 Jun 2007**	10 Dec 2007	Pass
EG035F: Dissolved Mercury by FIMS							
Clear Plastic Bottle - Nitric Acid; Filtered							
D01	**13 Jun 2007**	----	----	----	**20 Jun 2007**	11 Jul 2007	Pass
EP066: Polychlorinated Biphenyls (PCB)							
Amber Glass Bottle - Unpreserved							
D01	**13 Jun 2007**	**15 Jun 2007**	20 Jun 2007	Pass	**19 Jun 2007**	25 Jul 2007	Pass
EP068: Pesticides							
Amber Glass Bottle - Unpreserved							
D01	**13 Jun 2007**	**15 Jun 2007**	20 Jun 2007	Pass	**19 Jun 2007**	25 Jul 2007	Pass
EP071: TPH - Semivolatile Fraction							
Amber Glass Bottle - Unpreserved							
D01	**13 Jun 2007**	**15 Jun 2007**	20 Jun 2007	Pass	**19 Jun 2007**	25 Jul 2007	Pass
EP075: Semivolatile Organic Compounds							
Amber Glass Bottle - Unpreserved							
D01	**13 Jun 2007**	**15 Jun 2007**	20 Jun 2007	Pass	**19 Jun 2007**	25 Jul 2007	Pass
EP080: TPH Volatiles/BTEX							
Amber VOC Vial - HCl or NaHSO4							
D01	**13 Jun 2007**	**----**	----	----	**18 Jun 2007**	27 Jun 2007	Pass

Interpretive Quality Control Report - Frequency of Quality Control Samples

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which this work order was processed. Actual rate should be greater than or equal to the expected rate.

Matrix Type: WATER ***Frequency of Quality Control Samples***

Quality Control Sample Type / Method	Count		Rate (%)		Quality Control Specification
	QC	Regular	Actual	Expected	
Laboratory Duplicates (DUP)					
ED037-P: Alkalinity by PC Titrator	1	9	**11.1**	**10.0**	NEPM 1999 Schedule B(3) and ALSE QCS3 requirement
ED040F: Major Anions - Filtered	2	14	**14.3**	**10.0**	NEPM 1999 Schedule B(3) and ALSE QCS3 requirement
ED045G: Chloride by Discrete Analyser	2	19	**10.5**	**10.0**	NEPM 1999 Schedule B(3) and ALSE QCS3 requirement
ED093F: Major Cations - Filtered	2	16	**12.5**	**10.0**	NEPM 1999 Schedule B(3) and ALSE QCS3 requirement
EG020A-F: Dissolved Metals by ICP-MS - Suite A	2	15	**13.3**	**10.0**	NEPM 1999 Schedule B(3) and ALSE QCS3 requirement
EG035F: Dissolved Mercury by FIMS	2	20	**10.0**	**10.0**	NEPM 1999 Schedule B(3) and ALSE QCS3 requirement
EP080: TPH Volatiles/BTEX	2	20	**10.0**	**10.0**	NEPM 1999 Schedule B(3) and ALSE QCS3 requirement
Laboratory Control Samples (LCS)					
ED037-P: Alkalinity by PC Titrator	1	9	**11.1**	**5.0**	NEPM 1999 Schedule B(3) and ALSE QCS3 requirement
ED040F: Major Anions - Filtered	1	14	**7.1**	**5.0**	NEPM 1999 Schedule B(3) and ALSE QCS3 requirement
ED045G: Chloride by Discrete Analyser	2	19	**10.5**	**10.0**	NEPM 1999 Schedule B(3) and ALSE QCS3 requirement
ED093F: Major Cations - Filtered	1	16	**6.3**	**5.0**	NEPM 1999 Schedule B(3) and ALSE QCS3 requirement
EG020A-F: Dissolved Metals by ICP-MS - Suite A	1	15	**6.7**	**5.0**	NEPM 1999 Schedule B(3) and ALSE QCS3 requirement
EG035F: Dissolved Mercury by FIMS	1	20	**5.0**	**5.0**	NEPM 1999 Schedule B(3) and ALSE QCS3 requirement
EP066: Polychlorinated Biphenyls (PCB)	1	1	**100.0**	**5.0**	NEPM 1999 Schedule B(3) and ALSE QCS3 requirement
EP068: Pesticides	1	10	**10.0**	**5.0**	NEPM 1999 Schedule B(3) and ALSE QCS3 requirement
EP071: TPH - Semivolatile Fraction	1	4	**25.0**	**5.0**	NEPM 1999 Schedule B(3) and ALSE QCS3 requirement
EP075: Semivolatile Organic Compounds	1	1	**100.0**	**5.0**	NEPM 1999 Schedule B(3) and ALSE QCS3 requirement
EP080: TPH Volatiles/BTEX	1	20	**5.0**	**5.0**	NEPM 1999 Schedule B(3) and ALSE QCS3 requirement
Method Blanks (MB)					
ED040F: Major Anions - Filtered	1	14	**7.1**	**5.0**	NEPM 1999 Schedule B(3) and ALSE QCS3 requirement
ED045G: Chloride by Discrete Analyser	1	19	**5.3**	**5.0**	NEPM 1999 Schedule B(3) and ALSE QCS3 requirement
ED093F: Major Cations - Filtered	1	16	**6.3**	**5.0**	NEPM 1999 Schedule B(3) and ALSE QCS3 requirement
EG020A-F: Dissolved Metals by ICP-MS - Suite A	1	15	**6.7**	**5.0**	NEPM 1999 Schedule B(3) and ALSE QCS3 requirement
EG035F: Dissolved Mercury by FIMS	1	20	**5.0**	**5.0**	NEPM 1999 Schedule B(3) and ALSE QCS3 requirement
EP066: Polychlorinated Biphenyls (PCB)	1	1	**100.0**	**5.0**	NEPM 1999 Schedule B(3) and ALSE QCS3 requirement
EP068: Pesticides	1	10	**10.0**	**5.0**	NEPM 1999 Schedule B(3) and ALSE QCS3 requirement
EP071: TPH - Semivolatile Fraction	1	4	**25.0**	**5.0**	NEPM 1999 Schedule B(3) and ALSE QCS3 requirement
EP075: Semivolatile Organic Compounds	1	1	**100.0**	**5.0**	NEPM 1999 Schedule B(3) and ALSE QCS3 requirement
EP080: TPH Volatiles/BTEX	1	20	**5.0**	**5.0**	NEPM 1999 Schedule B(3) and ALSE QCS3 requirement
Matrix Spikes (MS)					
ED045G: Chloride by Discrete Analyser	1	19	**5.3**	**5.0**	NEPM 1999 Schedule B(3) and ALSE QCS3 requirement
EG020A-F: Dissolved Metals by ICP-MS - Suite A	1	15	**6.7**	**5.0**	NEPM 1999 Schedule B(3) and ALSE QCS3 requirement
EG035F: Dissolved Mercury by FIMS	1	20	**5.0**	**5.0**	NEPM 1999 Schedule B(3) and ALSE QCS3 requirement
EP080: TPH Volatiles/BTEX	1	20	**5.0**	**5.0**	NEPM 1999 Schedule B(3) and ALSE QCS3 requirement

ALS Environmental

Interpretive Quality Control Report - Summary of Outliers

Outliers : Quality Control Samples

The following report highlights outliers flagged on the 'Quality Control Report'. Surrogate recovery limits are static and based on USEPA SW846 or ALS-QWI/EN/38 (in the absence of specific USEPA limits). Flagged outliers on control limits for inorganics tests may be within the NEPM specified data quality objective of recoveries in the range of 70 to 130%. Where this occurs, no corrective action is taken. - Anonymous - Client Sample IDs refer to samples which are not specifically part of this work order but formed part of the QC process lot.

Non-surrogates

ALS QC Lot	Matrix Type	Laboratory Sample ID	Client Sample ID	Analyte	Data	Limits	Comment
Matrix Spikes (MS)							
EG020F: Dissolved Metals by ICP-MS	WATER	EP0702401-005	Anonymous	Zinc	ND	----	MS recovery not determined, background level greater than or equal to 4x spike level.

- **For all matrices, no RPD recovery outliers occur for the duplicate analysis.**
- **For all matrices, no method blank result outliers occur.**
- **For all matrices, no laboratory spike recoveries breaches occur.**

Surrogates

ALS QC Lot	Matrix Type	Laboratory Sample ID	Client Sample ID	Analyte	Data	Limits	Comment
Surrogates							
EP075S: Acid Extractable Surrogates	WATER	ES0707978-001	D01	2-Fluorophenol	113 %	21-100 %	Recovery greater than upper data quality objective

Outliers : Analysis Holding Time

The following report highlights outliers within this 'Interpretive Quality Control Report - Analysis Holding Time'.

- **No holding time outliers occur.**

Outliers : Frequency of Quality Control Samples

The following report highlights outliers within this 'Interpretive Quality Control Report - Frequency of Quality Control Samples'.

- **No frequency outliers occur.**

Method Reference Summary

The analytical procedures used by ALS Environmental are based on established internationally-recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house procedure are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported herein. Reference methods from which ALSE methods are based are provided in parenthesis.

Matrix Type: WATER ***Method Reference Summary***

Preparation Methods

ORG14 : Separatory Funnel Extraction of Liquids - USEPA SW 846 - 3510B 500 mL to 1L of sample is transferred to a separatory funnel and serially extracted three times using 60mL DCM for each extract. The resultant extracts are combined, dehydrated and concentrated for analysis. This method is compliant with NEPM (1999) Schedule B(3) (Appdx. 2). ALS default excludes sediment which may be resident in the container.

Analytical Methods

ED037-P : Alkalinity by PC Titrator - APHA 21st ed., 2320 B This procedure determines alkalinity by both manual measurement and automated measurement (e.g. PC Titrate) using pH 4.5 for indicating the total alkalinity end-point. This method is compliant with NEPM (1999) Schedule B(3) (Appdx. 2)

ED040F : Major Anions - Filtered - APHA 21st ed., 3120 Sulphur and Silcon content is determined by ICP/AES and reported as Sulphate after conversion by gravimetric factor.

ED045G : Chloride by Discrete Analyser - The thiocyanate ion is liberated from mercuric thiocyanate through sequestration of mercury by the chloride ion to form non-ionised mercuric chloride.in the presence of ferric ions the librated thiocynate forms highly-coloured ferric thiocynate which is measured at 480 nm APHA 21st edition seal method2 017-1-L april 2003

ED093F : Major Cations - Filtered - APHA 21st ed., 3120; USEPA SW 846 - 6010 The ICPAES technique ionises filtered sample atoms emitting a characteristic spectrum. This spectrum is then compared against matrix matched standards for quantification. This method is compliant with NEPM (1999) Schedule B(3) (Appdx. 2)

EG020A-F : Dissolved Metals by ICP-MS - Suite A - (APHA 21st ed., 3125; USEPA SW846 - 6020, ALS QWI-EN/EG020): The ICPMS technique utilizes a highly efficient argon plasma to ionize selected elements. Ions are then passed into a high vacuum mass spectrometer, which separates the analytes based on their distinct mass to charge ratios prior to their measurement by a discrete dynode ion detector.

EG035F : Dissolved Mercury by FIMS - AS 3550, APHA 21st ed. 3112 Hg - B (Flow-injection (SnCl2)(Cold Vapour generation) AAS) FIM-AAS is an automated flameless atomic absorption technique. A bromate/bromide reagent is used to oxidise any organic mercury compounds in the filtered sample. The ionic mercury is reduced online to atomic mercury vapour by SnCl2 which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM (1999) Schedule B(3) (Appdx. 2)

EN055 - DA : Ionic Balance - APHA 21st Ed. 1030F. This method is compliant with NEPM (1999) Schedule B(3) (Appdx. 2)

EP066 : Polychlorinated Biphenyls (PCB) - USEPA SW 846 - 8270D Sample extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM (1999) Schedule B(3) (Appdx. 2)

EP068 : Pesticides - USEPA SW 846 - 8270D Sample extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM (1999) Schedule B(3) (Appdx. 2)

EP071 : TPH - Semivolatile Fraction - USEPA SW 846 - 8015A The sample extract is analysed by Capillary GC/FID and quantification is by comparison against an established 5 point calibration curve of n-Alkane standards. This method is compliant with NEPM (1999) Schedule B(3) (Appdx. 2)

EP075 : Semivolatile Organic Compounds - USEPA SW 846 - 8270D Sample extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM (1999) Schedule B(3) (Appdx. 2)

EP080 : TPH Volatiles/BTEX - USEPA SW 846 - 8260B Water samples are directly purged prior to analysis by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM (1999) Schedule B(3) (Appdx. 2)

Attachment E 95% UCL Calculations

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	28/05/2025 4:08:13 PM
From File	95 UCL - Arsenic.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Arsenic (mg/kg)

General Statistics

Total Number of Observations	167	Number of Distinct Observations	80
		Number of Missing Observations	32
Minimum	1	Mean	12.95
Maximum	570	Median	7.1
SD	44.34	Std. Error of Mean	3.431
Coefficient of Variation	3.423	Skewness	12.12

Normal GOF Test

Shapiro Wilk Test Statistic	0.179	**Shapiro Wilk GOF Test**
5% Shapiro Wilk P Value	0	Data Not Normal at 5% Significance Level
Lilliefors Test Statistic	0.396	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.0686	Data Not Normal at 5% Significance Level

Data Not Normal at 5% Significance Level

Assuming Normal Distribution

95% Normal UCL		95% UCLs (Adjusted for Skewness)	
95% Student's-t UCL	18.63	95% Adjusted-CLT UCL (Chen-1995)	22.03
		95% Modified-t UCL (Johnson-1978)	19.16

Gamma GOF Test

A-D Test Statistic	5.988E+28	**Anderson-Darling Gamma GOF Test**
5% A-D Critical Value	0.781	Data Not Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.241	**Kolmogrov-Smirnoff Gamma GOF Test**
5% K-S Critical Value	0.0741	Data Not Gamma Distributed at 5% Significance Level

Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	1.09	k star (bias corrected MLE)	1.075
Theta hat (MLE)	11.88	Theta star (bias corrected MLE)	12.05
nu hat (MLE)	364.1	nu star (bias corrected)	358.9
MLE Mean (bias corrected)	12.95	MLE Sd (bias corrected)	12.49
		Approximate Chi Square Value (0.05)	316
Adjusted Level of Significance	0.0486	Adjusted Chi Square Value	315.7

Assuming Gamma Distribution

95% Approximate Gamma UCL (use when n>=50))	14.71	95% Adjusted Gamma UCL (use when n<50)	14.73

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.925	**Shapiro Wilk Lognormal GOF Test**
5% Shapiro Wilk P Value	6.134E-11	Data Not Lognormal at 5% Significance Level
Lilliefors Test Statistic	0.109	**Lilliefors Lognormal GOF Test**
5% Lilliefors Critical Value	0.0686	Data Not Lognormal at 5% Significance Level

Data Not Lognormal at 5% Significance Level

58	**Lognormal Statistics**											
59	Minimum of Logged Data					0	Mean of logged Data					2.037
60	Maximum of Logged Data					6.346	SD of logged Data					0.734
61												
62	**Assuming Lognormal Distribution**											
63	95% H-UCL					11.22	90% Chebyshev (MVUE) UCL					11.93
64	95% Chebyshev (MVUE) UCL					12.79	97.5% Chebyshev (MVUE) UCL					13.99
65	99% Chebyshev (MVUE) UCL					16.35						
66												
67	**Nonparametric Distribution Free UCL Statistics**											
68	**Data do not follow a Discernible Distribution (0.05)**											
69												
70	**Nonparametric Distribution Free UCLs**											
71	95% CLT UCL					18.6	95% Jackknife UCL					18.63
72	95% Standard Bootstrap UCL					18.51	95% Bootstrap-t UCL					37.99
73	95% Hall's Bootstrap UCL					39.41	95% Percentile Bootstrap UCL					19.55
74	95% BCA Bootstrap UCL					23.49						
75	90% Chebyshev(Mean, Sd) UCL					23.25	95% Chebyshev(Mean, Sd) UCL					27.91
76	97.5% Chebyshev(Mean, Sd) UCL					34.38	99% Chebyshev(Mean, Sd) UCL					47.09
77												
78	**Suggested UCL to Use**											
79	95% Chebyshev (Mean, Sd) UCL					27.91						
80												
81	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
82	These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)											
83	and Singh and Singh (2003). However, simulations results will not cover all Real World data sets.											
84	For additional insight the user may want to consult a statistician.											
85												

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	28/05/2025 4:08:25 PM
From File	95 UCL - TPH.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

TPH C10-C36 (Sum of Total) (mg/kg)

General Statistics

Total Number of Observations	141	Number of Distinct Observations	95
		Number of Missing Observations	58
Minimum	52	Mean	687.8
Maximum	12960	Median	280
SD	1675	Std. Error of Mean	141.1
Coefficient of Variation	2.436	Skewness	6.025

Normal GOF Test

Shapiro Wilk Test Statistic	0.35	**Shapiro Wilk GOF Test**
5% Shapiro Wilk P Value	0	Data Not Normal at 5% Significance Level
Lilliefors Test Statistic	0.352	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.0746	Data Not Normal at 5% Significance Level

Data Not Normal at 5% Significance Level

Assuming Normal Distribution

95% Normal UCL		**95% UCLs (Adjusted for Skewness)**	
95% Student's-t UCL	921.4	95% Adjusted-CLT UCL (Chen-1995)	996.4
		95% Modified-t UCL (Johnson-1978)	933.3

Gamma GOF Test

A-D Test Statistic	9.542	**Anderson-Darling Gamma GOF Test**
5% A-D Critical Value	0.795	Data Not Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.189	**Kolmogrov-Smirnoff Gamma GOF Test**
5% K-S Critical Value	0.082	Data Not Gamma Distributed at 5% Significance Level

Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	0.755	k star (bias corrected MLE)	0.743
Theta hat (MLE)	911.5	Theta star (bias corrected MLE)	925.4
nu hat (MLE)	212.8	nu star (bias corrected)	209.6
MLE Mean (bias corrected)	687.8	MLE Sd (bias corrected)	797.8
		Approximate Chi Square Value (0.05)	177.1
Adjusted Level of Significance	0.0483	Adjusted Chi Square Value	176.8

Assuming Gamma Distribution

95% Approximate Gamma UCL (use when n>=50))	814	95% Adjusted Gamma UCL (use when n<50)	815.4

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.938	**Shapiro Wilk Lognormal GOF Test**
5% Shapiro Wilk P Value	1.3027E-6	Data Not Lognormal at 5% Significance Level
Lilliefors Test Statistic	0.0761	**Lilliefors Lognormal GOF Test**
5% Lilliefors Critical Value	0.0746	Data Not Lognormal at 5% Significance Level

Data Not Lognormal at 5% Significance Level

58	**Lognormal Statistics**											
59					Minimum of Logged Data	3.951				Mean of logged Data		5.741
60					Maximum of Logged Data	9.47				SD of logged Data		1.054
61												
62	**Assuming Lognormal Distribution**											
63					95% H-UCL	662.6				90% Chebyshev (MVUE) UCL		715.1
64					95% Chebyshev (MVUE) UCL	794.8				97.5% Chebyshev (MVUE) UCL		905.5
65					99% Chebyshev (MVUE) UCL	1123						
66												
67	**Nonparametric Distribution Free UCL Statistics**											
68	**Data do not follow a Discernible Distribution (0.05)**											
69												
70	**Nonparametric Distribution Free UCLs**											
71					95% CLT UCL	919.9				95% Jackknife UCL		921.4
72					95% Standard Bootstrap UCL	915.3				95% Bootstrap-t UCL		1096
73					95% Hall's Bootstrap UCL	1882				95% Percentile Bootstrap UCL		934
74					95% BCA Bootstrap UCL	1040						
75					90% Chebyshev(Mean, Sd) UCL	1111				95% Chebyshev(Mean, Sd) UCL		1303
76					97.5% Chebyshev(Mean, Sd) UCL	1569				99% Chebyshev(Mean, Sd) UCL		2092
77												
78	**Suggested UCL to Use**											
79					95% Chebyshev (Mean, Sd) UCL	1303						
80												
81	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
82	These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)											
83	and Singh and Singh (2003). However, simulations results will not cover all Real World data sets.											
84	For additional insight the user may want to consult a statistician.											
85												

Appendix D Voluntary Planning Agreement (VPA 2022)

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Lodger Details

Lodger Code	505966M
Name	LINDSAY TAYLOR LAWYERS
Address	L 9, SE 3, 420 GEORGE ST SYDNEY 2000
Lodger Box	1W
Email	FRANCES.TSE@LINDSAYTAYLORLAWYERS.COM.AU
Reference	LAN20003 - STAG

Land Registry Document Identification

AS716028

STAMP DUTY:

Request (11R)

Jurisdiction NEW SOUTH WALES

Privacy Collection Statement

The information in this form is collected under statutory authority and used for the purpose of maintaining publicly searchable registers and indexes.

Land Title Reference	Part Land Affected?	Land Description
6/1199427	N	

Applicant

LANDCOM

State/Territory government or body

Document Type

Request (11R)

The subscriber requests the Registrar-General to make any necessary recording in the Register to give effect to this instrument, in respect of the land or interest described above.

Attachment

See attached Dealing

Execution

The Certifier has taken reasonable steps to verify the identity of the applicant or his, her or its administrator or attorney.

The Certifier holds a properly completed Client Authorisation for the Conveyancing Transaction including this Registry Instrument or Document.

The Certifier has retained the evidence supporting this Registry Instrument or Document.

The Certifier has taken reasonable steps to ensure that this Registry Instrument or Document is correct and compliant with relevant legislation and any Prescribed Requirement.

Executed on behalf of	LANDCOM
Signer Name	WING YEE TSE
Signer Organisation	LTL PTY LIMITED
Signer Role	PRACTITIONER CERTIFIER
Execution Date	13/12/2022

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AS716028H

Form: 11R
Release: 4·4

REQUEST

New South Wales
Real Property Act 1900

PRIVACY NOTE: Section 31B of the Real Property Act 1900 (RP Act) authorises the Registrar General to collect the information required by this form for the establishment and maintenance of the Real Property Act Register. Section 96B RP Act requires that the Register is made available to any person for search upon payment of a fee, if any.

All Statutory Declarations and evidence that are lodged in support of land dealings will be treated as publicly accessible and will be disclosed to persons upon request.

STAMP DUTY

Insert Duties Assessment No. as issued by Revenue NSW Office.

Duties Assessment No.

(B) **TORRENS TITLE**

6/1199427

(C) **REGISTERED DEALING**

Number	Torrens Title

(D) **LODGED BY**

Document Collection Box	Name, Address or DX, Telephone, and Customer Account Number if any	CODE
	Lindsay Taylor Lawyers Level 9, Suite 3, 420 George Street, Sydney NSW 2000 Tel: (02) 8235 9700 Email: frances.tse@lindsaytaylorlawyers.com.au Reference: LAN20003	R

(E) **APPLICANT**

Landcom ABN 79 268 260 688

(F) **NATURE OF REQUEST**

Registration of Planning Agreement pursuant to s7.6
Environmental Planning and Assessment Act 1979

(G) **TEXT OF REQUEST**

The Applicant as registered proprietor of the land identified at (B) requests the registration of the Green Square Town Centre - Stage 3 Planning Agreement signed by The Council of the City of Sydney, Landcom and Mirvac Green Square Pty Ltd and dated 30 November 2022. A copy of the Planning Agreement is at Annexure A.

DATE 12 December 2022

(H)

Certified correct for the purposes of the Real Property Act 1900 on behalf of the applicant by the person whose signature appears below.

Signature: Frances

Signatory's name: Wing Yee Tse
Signatory's capacity: solicitor

(I) *This section is to be completed where a notice of sale is required and the relevant data has been forwarded through eNOS.*

The applicant certifies that the eNOS data relevant to this dealing has been submitted and stored under eNOS ID No. _____ Full name: _____ Signature: _____

* *s117 RP Act requires that you must have known the signatory for more than 12 months or have sighted identifying documentation.*

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Annexure A to Request

Planning Agreement

Green Square Town Centre– Stage 3

The Council of the City of Sydney
Council

Mirvac Green Square Pty Ltd
Contractor

Landcom
Land Owner

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Planning Agreement made at Sydney **on** 30 November 2022

Parties

The Council of the City of Sydney ABN 22 636 550 790 of 456 Kent Street Sydney NSW (**Council**)

Mirvac Green Square Pty Ltd ACN 131 815 079 of Level 28, 200 George Street Sydney NSW (**Contractor**)

Landcom ABN 79 268 260 688 of Level 14, 60 Station Street, Parramatta NSW (**Land Owner**)

Background

A. The Land Owner owns or owned the Land and has consented to the Contractor carrying out the Development on the Land.

B. The Contractor has and intends to continue to carry out the Development on the Land.

C. The Contractor and the Land Owner sought a change to an environmental planning instrument (which following gazettal became the LEP) which resulted in the Green Square Town Centre Land being rezoned.

D. The LEP commenced on 13 September 2013.

E. This Deed constitutes an amended agreement between the Contractor, the Land Owner and the Council that the Contractor or the Land Owner (as applicable) will pay monetary contributions, or provide other material public benefits, or a combination of them, in connection with the LEP and the Development on the Land on the terms and conditions of this Deed.

F. The GI Provisions set out rights and obligations of the Parties relating to the provision of Green Infrastructure by Council with the intention that such Green Infrastructure will be connected to Buildings in the Development on the Land.

Operative provisions

1. Interpretation

1.1 Definitions

The following words have these meanings in this Deed unless the contrary intention appears:

Access Plan means the plan in Schedule 18.

Adjustment Date means each 30 June every year after the date of this Deed.

Appeal means an appeal (including an application for any kind of leave to appeal) in a Court of competent jurisdiction against the decision of a lower court.

Appeal Notice means:

(a) in proceedings in the Court of Appeal:

(i) an application for leave to Appeal;

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(ii) a Notice of Intention to Appeal; or

(iii) if a valid Notice of Intention to Appeal has been lodged, a Notice of Appeal; and

(b) in proceedings in the High Court, an application for Special Leave to Appeal.

Application means an application for any Approval.

Approval means any approvals, consents, certificates, permits, endorsements, licences, conditions or requirements (and any modifications or variations to them) which may be required by Law for the commencement and carrying out of the Contributions Works or the Development generally and includes a Development Consent or other approval under the EP&A Act (or modification of that approval).

Area means those lots on the Land and the Green Square Town Centre Land shown on Map 2 of Schedule 3 which are not Development Sites.

Australian Drinking Water Guidelines means the publication of the same name by the National Health and Medical Research Council and Natural Resource Management Ministerial Council (2011).

Australian Guidelines for Water Recycling means:

(a) the Australian Guidelines for Water Recycling: Managing Health and Environmental Protection Heritage Council, Natural Resource Management Ministerial Council and Australian Health Ministers Conference (2005); and

(b) Australian Guidelines for Water Recycling: Stormwater Harvesting and Reuse Phase 2 by the Environment Protection and Heritage Council, Natural Resource Management Ministerial Council and Australian Health Ministers Conference (2009).

Authority means any governmental, semi-governmental, administrative, fiscal or judicial body, department, commission, authority, tribunal, agency or entity and includes an accredited certifier accredited under the *Building Professionals Act* 2005.

Bank Bill Rate means the average bid rate for Bills having a tenor of 90 days as displayed on the "BBSY" page of the Reuters Monitor System on the day the relevant payment is due (**Due Date**). However, if the average bid rate is not displayed by 10:30 am on the Due Date or if it is displayed but there is an obvious error in that rate, **Bank Bill Rate** means:

(a) the rate the Council calculates as the average of the bid rates quoted at approximately 10:30 am on that day by each of five or more institutions chosen by the Council which provide rates for display on the "BBSY" page of the Reuters Monitor System for Bills of a 90 day tenor which are accepted by that institution (after excluding the highest and the lowest, or in the case of equality, one of the highest and one of the lowest bid rates); or

(b) where the Council is unable to calculate a rate under paragraph (a) because it is unable to obtain the necessary number of quotes, the rate set by the Council in good faith at approximately 10:30 am on that day, having regard, to the extent possible, to the rates otherwise bid for Bills of a 90 day tenor at or around that time.

The rate calculated or set must be expressed as a percentage rate per annum and be rounded up to the nearest fourth decimal place.

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The Council may calculate a rate under paragraph (a) or (b) before 11:00 am on the Due Date, but if the average bid rate appears on the "BBSY" page by 11:00 am and there is no obvious error in it, the "BBSY" page rate applies as the **Bank Bill Rate** under this Deed despite any calculation by the Council under paragraph (a) or (b).

Best Industry Practice means the exercise of that degree of professional skill, diligence, and prudence that reasonably would be expected from competent persons performing tasks and functions similar in nature to the Contribution Works and consistent with the Law.

Bills means a bill of exchange as defined in the *Bills of Exchange Act* 1909 (Cth), but does not include a cheque.

Bond means a documentary performance bond which must be denominated in Australian dollars and be an unconditional undertaking with all the following requirements. It must:

(a) be signed and issued by an Australian Prudential Regulation Authority (**APRA**) regulated authorised deposit taking institution or an insurer authorised by APRA to conduct new or renewal insurance business in Australia;

(b) have at all times an investment grade security rating from an industry recognised rating agency of at least:

(i) BBB + [Standard & Poors and Fitch]; or

(ii) Baa 1 [Moodys]; or

(iii) bbb [Bests].

(c) be issued on behalf of the Land Owner;

(d) have no expiry or end date;

(e) have the beneficiary as the Council;

(f) be irrevocable;

(g) state either individually, or in total with other lodged compliant forms of the Bond, the relevant minimum amount required to be lodged as security; and

(h) state the purpose of the deposit required in accordance with this Planning Agreement.

Bond Amounts means the Remediation Bond Amount.

Bond Works means the Remediation Works.

Building means a building proposed to be constructed on the Land (which may be part of a stratum containing other buildings, that structure to be the subject of a deposited plan in respect of which a lot or lots are limited in height, depth or both), but excluding marketing suites and temporary buildings for retail purposes or other buildings which are not part of the LEP and which are not intended to remain on the Land indefinitely.

Business Day means any day except for Saturday or Sunday or a day which is a public holiday in Sydney.

Cash Deposit has the meaning given to that term in paragraph 6 of Schedule 10.

Cash Deposit Account has the meaning given to that term in paragraph 6 of Schedule 10.

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CEO means the Chief Executive Officer or the person acting in that role for each of the Council, the Contractor and the Land Owner.

Certificate of Practical Completion has the meaning given to that term in paragraph 1.17 of Schedule 4.

Certifier means:

(a) such person or persons with the appropriate qualifications and accreditation to provide the required certification and appointed by the Contractor (at its cost);

(b) in the case of the Contribution GI Works only, such person or persons with the appropriate qualifications agreed by the Council and the Contractor to certify the Contribution GI Works and jointly appointed by the Contractor and the Council (at the Contractor's cost); and

(c) in the case of the Remediation Works, the Site Auditor.

The Certifier may be, but is not necessarily, the private certifying authority for the Development.

Completion Date means, in respect of a Building:

(a) the date on which a strata plan is registered in respect of that Building; or

(b) if the Building is not to be immediately the subject of a strata scheme, the date on which the first Occupation Certificate for that Building is issued.

Compliance Certificate means a certificate referred to in section 6.4(e) of the Act.

Connect means connect the relevant Green Infrastructure for a Building to the relevant Contribution GI Works in each Building, and the terms **Connection** and **Connected** will be construed accordingly.

Consent Authority means, in relation to an Application, the Authority having the function to determine the Application.

Consequential Loss means any loss of profit, loss of revenue, loss of business opportunity or goodwill, loss of any contract or any indirect loss.

Construction Certificate means a certificate issued under section 6.4(a) of the EP&A Act.

Construction Cost means the Costs of and directly attributable to the performance of the Bond Works including:

(a) preparation of design and construction drawings for the Bond Works;

(b) cost of materials used or installed (as the case may be) as part of the Bond Works; and

(c) labour, equipment hire and other Costs directly associated with the excavation and Remediation Works (as applicable).

Contamination has the same meaning as in the *Contaminated Lands Management Act 1997.*

Contractor's First Notice means the notice to be given by the Contractor under clause 5.1 of the GI Provisions.

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Contractor Remediation Statement has the meaning given to this term in clause 1.28(a)(ii)(B) of Schedule 4.

Contribution Amount means the amounts of a monetary contribution to be paid by the Contractor as described in Table 1 of the Contributions Schedule.

Contribution GI Works means the works to be undertaken by the Contractor as described in Table 4 of the Contributions Schedule.

Contribution GI Works Bond means the Bond to secure:

(a) the Practical Completion of the Contribution GI Works in accordance with Schedule 3.

(b) rectification of any defects and omissions (if any) of the Contribution GI Works during the Defects Liability Period.

Contribution GI Works Bond Amount means $50,000 for each Building as increased by CPI in accordance with paragraph 1.3 of Schedule 10.

Contribution Land means that part of the Land shown in Map 2 – Contribution Land in Schedule 3, to be transferred by the Land Owner to the Council in accordance with Table 2 of the Contributions Schedule and Paragraph 1.2 of Schedule 5.

Contribution WIK means the works to be undertaken by the Contractor as described in Table 3 of the Contributions Schedule.

Contribution Works means each of the Contribution GI Works and the Contribution WIK.

Contribution Works Portion means each part of the Contribution Works set out separately in Table 3 and Table 4 of the Contributions Schedule.

Contributions means the Contribution Amount, the Contribution Land and the Contribution Works and the provision of material public benefits, all as provided for in the Contributions Schedule of this Deed.

Contributions Schedule means the table and notes included in Schedule 3.

Costs includes all costs, charges and expenses, including those incurred in connection with advisers.

Council Remediation Statement has the meaning given to this term in clause 1.28(a)(ii)(C) of Schedule 4.

Council Road Works means the road works to be carried out by Council, being the road works shown on the plan in the Essential Infrastructure DA Plans.

Court means the New South Wales Land and Environment Court or any other court of competent jurisdiction.

CPI means the Sydney Consumer Price Index (All Groups) published by the Commonwealth Statistician, or if that index no longer exists, any similar index which the Council determines in its sole discretion.

Dealing means selling, transferring, assigning, subdividing, mortgaging, charging, encumbering or otherwise dealing with the Land.

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Dedicate means to lodge a registrable instrument at NSW Land Registry Services which, when registered is effective to transfer land to the Council and **Dedication** has a corresponding mean.

Deed means this deed.

Defects Liability Period means in respect of a Contribution Works Portion the period of 12 months which commences on the date of Practical Completion of that Contribution Works Portion

Deliver means design and install in each Building the relevant Green Infrastructure for that Building, and the terms **Delivery** and **Delivered** will be construed accordingly.

Determination Notice means a notice served by a party advising another party that a dispute will be referred to an Independent Expert for determination.

Development means the development described in paragraph 3 of Schedule 2.

Development Application means:

(a) each 'Development Application' as that term is defined in the EP&A Act; and

(b) each Application for a Modification.

Development Consent means:

(a) each 'Development Consent' as that term is defined in the EP&A Act or an approval under Part 5 of the EP&A Act; and

(b) each Modification.

Development Contributions Procedures means the development contribution procedures set out in Schedule 4 and Schedule 5 of this Deed.

Development Program means the development program prepared by the Contractor comprising Schedule 16, as may be updated from time to time, showing the dates by which, or the times within which, the various stages or portions of the Development on the Land are to be carried out or completed, including, but not limited to, the anticipated dates of issue of a Construction Certificate and an Occupation Certificate.

Development Site means each of the development lots on the Land identified in Map 1 of Schedule 3.

DRS means the Development Rights Scheme under the Green Square Infrastructure Strategy (2006), as indexed annually for inflation in accordance with movements in CPI, or any other similar scheme that replaces it.

Encumbrance, in relation to any land, means any:

(a) security for the payment of money or performance of obligations, including a mortgage, charge, lien, pledge, trust, power or title retention;

(b) right, interest or arrangement which has the effect of giving another person a preference, priority or advantage over creditors including any right of set-off;

(c) right that a person (other than the owner) has to remove something from land (known as a profit à prendre), easement, public right of way, restrictive or positive covenant, lease, or licence to use or occupy; or

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(d) third party right or interest or any right arising as a consequence of the enforcement of a judgment,

or any agreement to create any of them or allow them to exist, in respect of that land.

Environmental Consultant means the consultant engaged by the Contractor to prepare the Remediation Action Plan.

EP&A Act means the *Environmental Planning and Assessment Act* 1979 (NSW).

EP&A Regulation means the *Environmental Planning and Assessment Regulation* 2000 (NSW).

Essential Infrastructure DA means the Development Application D/2012/1175 for the construction of infrastructure as approved by the relevant consent authority in accordance with any related Approval.

Essential Infrastructure DA Plans means the plans lodged with Council at the time of execution of this Deed relating to the Essential Infrastructure DA.

Explanatory Note means the explanatory note relating to this Planning Agreement, as required by clause 25E of the EP&A Regulation, being Exhibit A.

First Remediation Bond means the Bond to secure:

(a) the Remediation Works for Areas 1, 2, 3, 9, 10 and 11 in accordance with Schedule 3 and this Deed.

(b) rectification of any defects and omissions (if any) of the Remediation for each of those Areas during the Defects Liability Period.

First Remediation Bond Amount means $8,044,178.47 as increased by CPI in accordance with paragraph 1.3 of Schedule 10.

GI Connections Specifications means the green infrastructure connection contained in Table 4 of the Contributions Schedule, as amended from time to time in accordance with this Deed or as otherwise agreed between the Parties.

GI Provisions means the provisions contained in Schedule 20 as they apply to the Land.

Green Infrastructure means infrastructure that can be operated on a precinct-scale that comprises:

(a) a non-potable recycled water network, comprising a water treatment plant and pipe network that connects to a non-potable recycled water reticulation system in the Buildings to supply the non-potable recycled water for certain uses including toilet flushing, car washing facilities, laundry (that satisfies the health regulations in respect of the cold water washing machine supply), air conditioning cooling towers and irrigation (**Non-Potable Recycled Water Network**), and

(b) a space cooling system (**Space Cooling System**),

located within public land and parts of the Land and as further particularised in the GI Connections Specifications and the GI Provisions and the requirements in Table 4 of the Contributions Schedule including in respect of air-conditioning refrigerants and space cooling.

Green Square Town Centre Land means the land described in paragraph 1 of Schedule 2 or any subsequent Subdivision of those lots (including the Development Sites).

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Gross Floor Area (GFA) has the same meaning as in the LEP.

GST has the meaning it has in the GST Act.

GST Act means the *A New Tax System (Goods and Services Tax) Act* 1999 (Cth).

GST Amount has the meaning given to that term in clause 14.

Habitable Space means any floor space capable of being inhabited as a dwelling or for commercial or retail purposes that is completed to a standard where it can be used for the purpose which it was intended.

Independent Expert has the meaning given to that term in paragraph 4 of Schedule 7.

Interest Rate in relation to interest payable on any payment due under this Deed means the rate which is the Bank Bill Rate plus a margin of 2% per annum.

Land means the land described in paragraph 2 of Schedule 2 or any subsequent Subdivision of those lots (including the Development Sites).

Law means:

(a) the common law including principles of equity; and

(b) the requirements of all statutes, rules, ordinances, codes, regulations, proclamations, by-laws or consents by an Authority.

Legal Costs means legal costs and expenses on a full indemnity basis or solicitor and own client basis, whichever is the higher.

Legal Challenge means proceedings in a Court in which a declaration that the LEP or Approval is invalid is sought, and includes, but is not limited to, any proceedings in which such a declaration is sought which are heard on remitter from another Court following an Appeal.

LEP means the *Sydney Local Environmental Plan (Green Square Town Centre) 2013* as amended from time to time.

Material Default means any default which substantially and adversely affects the Council's rights under this Planning Agreement.

Modification means a "modification" of the Development Consent within the meaning of section 4.55 of the EP&A Act.

Non-Potable Recycled Water Access Space has the meaning given to that term in Table 4 of the Contributions Schedule.

Non-Potable Recycled Water Network means the space contained in a Building that will accommodate the infrastructure associated with the Non-Potable Recycled Water System as particularised in the GI Connections Specifications and the GI Provisions.

Occupation Certificate means a certificate referred to in section 6.4(c) of the EP&A Act and which may be interim or final as provided for in section 109C(2) of the EP&A Act (as it was before its amendment in 2018).

Original Stage 1-5 Planning Agreement means voluntary planning agreement titled 'Green Square Town Centre – LML Development' made between the Council, the Contractor and the Land Owner dated 20 August 2013 (AH968097) and varied by the Deed of Variation of Planning Agreement entered into by those parties on 14 November 2014 (AJ381345).

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Other Public Benefits means the other public benefits (other than the provision or delivery of the Contribution Works and the Contribution Lands) to be provided to Council by the Contractor or the Land Owner as required under this Deed as described in Table 5 of the Contributions Schedule.

Party means a party to this Deed, and includes that party's executors, administrators, successors and permitted assigns, including persons taking by way of novation and, in the case of a trustee, includes a substitutes or an additional trustee.

Permitted Encumbrance means each of:

(a) easements benefitting statutory authorities, encroachments authorised by Approvals and environmental management requirements;

(b) the Relevant Easements; and

(c) any of the following:

(i) an Encumbrance (other than a mortgage, charge, pledge, lien, security interest, title retention, contractual right of set-off, or any other security agreement or arrangement in favour of any person); and

(ii) such other agreement or arrangement,

the Council (acting reasonably) agrees in writing are permitted encumbrances..

Planning Agreement means this Deed.

Practical Completion means in relation to:

(a) each Contribution Works Portion except the Remediation Works, the point of time at which the relevant Certifier is satisfied, acting reasonably, that the whole of that Contribution Works Portion (as the case may be) has been completed and installed in accordance with all relevant Approvals and this Deed (except for minor defects or omissions); and

(b) the Remediation Works, provision to Council of the Contractor Remediation Statement, as defined in paragraph 1.28 of Schedule 4.

Quantity Surveyor means a registered quantity surveyor appointed by the City of Sydney and approved by the Contractor (acting reasonably).

Real Property Act means the *Real Property Act* 1900 (NSW).

Recipient has the meaning given to that term in clause 14.

Recipient Supply has the meaning given to that term in clause 14.

Register means the Torrens title register maintained under the Real Property Act.

Relevant Easements has the meaning given to that term in paragraph 1.1 of Schedule 5.

Relevant Subdivision has the meaning given to that term in paragraph 1.1 of Schedule 5.

Remediation has the same meaning as in the *Contaminated Land Management Act* 1997 No. 140 (NSW).

Remediation Action Plan means the plan approved by a Site Auditor for the Remediation of that part of Land identified as Areas10 and 11, on Map 2 in Schedule 3 which may include by

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way of adoption and implementation of an environmental management plan, if required for the purpose of obtaining Development Consent.

Remediation Bond means the First Remediation Bond.

Remediation Bond Amount means the First Remediation Bond Amount.

Remediation Works means the Stage 1 Remediation and any other works required to be carried out by the Contractor in accordance with the Contributions Schedule to Remediate the Contributions Land.

Revised Bond Amounts has the meaning given to that term in paragraph 1.3 of Schedule 10.

Rezoning means the rezoning of the Land effected by the commencement of the LEP as first made.

Second Deed of Variation means the second deed of variation to the Original Stage 1-5 Planning Agreement to remove from the agreement all rights and obligations of the Parties in respect of the Land, the Stage 4 Land and Stage 5 Land.

Site Auditor has the same meaning as in *Contaminated Land Management Act* 1997 No 140 (NSW).

Sites means that part of the Land shown and labelled on Map 1 - Site Identification Plan in Schedule 3.

Stage 1 Remediation has the meaning given to this term in clause 1.28 of Schedule 4.

Stage 2 Remediation has the meaning given to this term in clause 1.28 of Schedule 4.

Stage 4 Land means part of the Green Square Town Centre Land comprised in part of Lot 1 in DP1199427 (being folio identifier 1/1199427) and any lot created by Subdivision of that lot (including the relevant Development Sites).

Stage 4 Planning Agreement means the planning agreement entered into between the Council and Mirvac Green Square Pty Ltd in respect of the Stage 4 Land dated on or about the date of this Deed.

Stage 5 Land means part of the Green Square Town Centre Land comprised in part of Lot 1 in DP1199427 (being folio identifier 1/1199427) and any lot created by Subdivision of that lot (including the relevant Development Sites).

Stage 5 Planning Agreement means the planning agreement entered into between the Council and Mirvac Green Square Pty Ltd in respect of the Stage 5 Land dated on or about the date of this Deed.

Subdivision has the meaning given to "subdivision of land" in section 6.2 of the EP&A Act and **Subdivide** has a similar meaning.

Subdivision Certificate has the same meaning as in the EP&A Act.

Supplier has the meaning given to that term in clause 14.

Suspension Expiry Date means the date on which the Suspension Period ends.

Suspension Period means the period of time from and including the date on which a document initiating a Legal Challenge has been served on the Council and the Land Owner and ending on:

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(a) subject to paragraphs (b) and (c), the date on which:

(i) the Legal Challenge is discontinued;

(ii) final orders (apart from any orders as to costs) are made in the Legal Challenge; or

(iii) for any other reason, the Legal Challenge no longer includes an application for a declaration that the LEP, Planning Agreement or Approval is invalid;

whichever is the earlier;

(b) subject to paragraph (c), if an Appeal Notice is filed and served in connection with final orders in the Legal Challenge or an Appeal from the Legal Challenge (apart from any orders as to costs), the date on which:

(i) the Appeal is discontinued;

(ii) final orders (apart from any orders as to costs) are made in the Appeal; or

(iii) for any other reason, the Appeal no longer includes an appeal in respect of a Court decision regarding the validity of the LEP, Planning Agreement or Approval whichever is earlier,

unless the orders in the Appeal require the Legal Challenge to be remitted to another Court in relation to the validity of the LEP, in which case paragraph (a) re-applies; or

(c) the date which is 15 Business Days after the date on which the period of time allowed for filing an Appeal Notice described in paragraph (b) has expired, if no valid Appeal Notice has been filed and served by that first-mentioned date.

For the avoidance of doubt, the Suspension Period continues if paragraph (b) applies.

Taxes means taxes, levies, imposts, deductions, charges and duties (including stamp and transaction duties) excluding GST together with any related interest, penalties, fines and expenses in connection with them, except if imposed on, or calculated having regard to, net income of a person.

1.2 General

In this Deed:

(a) headings are for convenience only and do not affect interpretation;

and unless the context indicates a contrary intention:

(b) "**person**" includes an individual, the estate of an individual, a corporation, an authority, an association or a joint venture (whether incorporated or unincorporated), a partnership and a trust;

(c) a reference to a document (including this Deed) is to that document as updated, varied, novated, ratified or replaced from time to time;

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(d) a reference to a statute includes its delegated legislation and a reference to a statute or delegated legislation or a provision of either includes consolidations, amendments, re-enactments, replacement and substitutions;

(e) a word importing the singular includes the plural (and vice versa), and a word indicating a gender includes every other gender;

(f) a reference to a party, clause, schedule, exhibit, attachment or annexure is a reference to a party, clause, schedule, exhibit, attachment or annexure to or of this Deed, and a reference to this Deed includes all schedules, exhibits, attachments and annexures to it;

(g) a reference to a schedule, exhibit, attachment or annexure to a clause, paragraph section, schedule, exhibit, attachment or annexure is a reference to a clause, paragraph, section, schedule, exhibit, attachment or annexure to or of that schedule, exhibit, attachment or annexure;

(h) if a word or phrase is given a defined meaning, any other part of speech or grammatical form of that word or phrase has a corresponding meaning;

(i) "**includes**" or "**such** as" in any form is not a word of limitation;

(j) a reference to "$" or "dollar" is to Australian currency;

(k) "**contractor**" include suppliers and consultants;

(l) "**construction**" includes manufacture and installation;

(m) no rule of construction applies to the disadvantage of a party because that party was responsible for the preparation of this Deed; and

(n) any capitalised term used, but not defined in this Deed, will have the meaning ascribed to it under, and by virtue of, the EP&A Act.

2. Planning Agreement

2.1 Operation of Planning Agreement

(a) This Deed operates on and from the date that this Deed, the Stage 5 Planning Agreement, the Stage 4 Planning Agreement and the Second Deed of Variation to the Original Stages 1-5 Planning Agreement are fully executed. The Land Owner shall have no obligations whatsoever under this Deed until that time.

(b) The Council must notify the Land Owner and the Contractor immediately after the Council executes this Planning Agreement and promptly provide the Land Owner and the Contractor with this Deed as executed by the Council.

2.2 Planning agreement under the EP&A Act

This Deed constitutes a planning agreement within the meaning of section 7.4 of the EP&A Act.

2.3 Application of the Planning Agreement

This Deed applies to:

(a) the Land; and

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(b) the Development on the Land.

3. Development Contributions

3.1 Payment or Delivery of Contributions

The Parties agree that:

(a) the Contractor must (at its Cost and risk) pay the Contribution Amounts to the Council in accordance with the Contributions Schedule;

(b) the Contractor must (at its Cost and risk) undertake the Contribution Works in accordance with the Contributions Schedule and Schedule 4 (as applicable);

(c) the Land Owner must (at its Cost and risk) transfer the Contribution Land in accordance with the Contributions Schedule and Schedule 5 to the Council (or such other person as the Council may reasonably direct); and

(d) the Land Owner and/or the Contractor (as applicable) must (at its Cost and risk) provide the Other Public Benefits in accordance with the Contributions Schedule,

and otherwise in accordance with the provisions of this Deed.

4. Application of s7.11, 7.12 and 7.24 of the EP&A Act

(a) The application of sections 7.11 and 7.12 of the EP&A Act are excluded to the extent stated in Schedule 1.

(b) The Council acknowledges that:

(i) contributions under the DRS are excluded to the extent that they apply to the Development carried out on the Land;

(ii) all things necessary to satisfy the requirements of the DRS have been done and nothing further is required to be done to satisfy the requirements of the DRS in connection with the Development on the Land; and

(iii) sections 7.11, 7.12 and 7.24 of EP&A Act do not apply to the DRS;

(c) The Contractor and the Land Owner acknowledge that any affordable housing contributions under any relevant planning instrument are not excluded.

(d) The Council will do all things reasonably necessary to exclude the application of the DRS to the Development and ensure that the Contractor and Land Owner are not liable to satisfy any further requirements of the DRS in connection with the Development

5. Caveat

The Land Owner acknowledges and agrees that:

(a) when this Deed is executed by the Contractor and the Land Owner (whether or not the Council has executed this Deed), the Council is deemed to have acquired, and the Land Owner is deemed to have granted, an equitable estate and interest in the Land for the purposes of section 74F(1) of the Real Property Act and consequently

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the Council has a sufficient interest in the Land in respect of which to lodge with the NSW Land Registry Services a caveat notifying that interest; and

(b) subject to clause 7, the Council may lodge a caveat on the Land to prevent any Dealing with the Land or any part of it in a manner which is inconsistent with this Deed and the Land Owner will not object to and consents to the Council lodging a caveat in the relevant folio of the Register for the Land nor will it seek to remove any caveat lodged by the Council provided the caveat does not prevent or delay the registration of this Deed in accordance with clause 6.

6. Registration of this Deed

6.1 Ownership of the Land

The Land Owner represents and warrants that it is the legal and beneficial owner of the parts of the Land not dedicated or already developed or transferred to Council or sold as contemplated by this Deed.

6.2 Registration on title

The Land Owner agrees to procure as soon as practicable the registration of this Deed in the relevant folio of the Register for the Land in accordance with section 7.6 of the EP&A Act and in accordance with Schedule 8.

7. Release and Discharge

The Council agrees to release and discharge this Deed and remove any caveat lodged by the Council pursuant to clause 5 on the release and discharge terms contained in Schedule 9.

8. Breaches to be rectified

If the Council considers that the Land Owner or the Contractor has defaulted on the performance of any of their respective obligations under this Deed, then the Council may give written notice to the Land Owner and the Contractor which:

(a) identifies the nature of the breach; and

(b) provides at least 20 Business Days (except in the case of an emergency or where there is an issue of public safety where less time may be specified) with which the Land Owner or the Contractor (as applicable) must rectify that breach and what action must be taken to rectify that breach.

9. Additional Security

The Contractor has agreed to provide security (in the form of Bonds) to the Council for performance of its obligations under this Deed on the terms and conditions of Schedule 10.

10. Assignment and other dealings

The Parties agree that provisions of Schedule 11 apply in relation to any proposed assignment or dealing in relation to the Land (or any part of it) or of a Party's interest in this Deed.

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11. Review of Deed

The Parties may agree to review this Deed. Any review or modification will be conducted in the circumstances and in the manner determined by the Parties.

12. Dispute resolution

The Parties agree that any disputes under or in relation to this Deed will be resolved in accordance with the procedures set out in Schedule 7.

13. Overdue payments

13.1 Interest on overdue money

The Contractor and the Land Owner each agree to pay interest to the Council on any amount payable by it under this Deed from when it becomes due for payment, during the period that it remains unpaid, on demand or at times determined by the Council, calculated on daily balances. The rate to be applied to each daily balance is the Interest Rate.

13.2 Compounding

Interest which is not paid when due for payment may be capitalised by the Council on the first day of each month. Interest is payable on capitalised interest at the rate and in the manner referred to in this clause 13.

13.3 Interest on liability merged in judgment or order

(a) If a liability under this Deed becomes merged in a judgment or order, then the Contractor or the Land Owner (as applicable) agree to pay interest to the Council on the amount of that liability as an independent obligation. This interest accrues from the date the liability becomes due for payment both before and after the judgment or order until it is paid, at a rate that is the higher of the rate payable under the judgment or order and the rate referred to in this clause 13.

(b) For the avoidance of doubt, if a liability under this Deed becomes merged in a judgment or order then the Contractor or the Land Owner (as applicable) will only be required to pay either interest payable under the judgment or order or interest calculated under this clause 13 not both.

14. GST

14.1 Interpretation

(a) Except where the context suggests otherwise, terms used in this clause 14 have the meanings given to those terms by the GST Act.

(b) Any part of a supply that is treated as a separate supply for GST purposes (including attributing GST payable to tax periods) will be treated as a separate supply for the purposes of this clause 14.

(c) A reference to something done (including a supply made) by a party includes a reference to something done by any entity through which that party acts.

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14.2 Reimbursements

Any payment or reimbursement required to be made under this Deed that is calculated by reference to a cost, expense, or other amount paid or incurred will be limited to the total cost, expense or amount less the amount of any input tax credit to which an entity is entitled for the acquisition to which the cost, expense or amount relates.

14.3 Additional amount of GST payable

Subject to clause 14.5, if GST becomes payable on any supply made by a party (**Supplier**) under or in connection with this Deed:

(a) any amount payable or consideration to be provided under any provision of this Deed (other than this clause 14), for that supply is exclusive of GST;

(b) any party (**Recipient**) that is required to provide consideration to the Supplier for that supply must pay an additional amount to the Supplier equal to the amount of the GST payable on that supply (**GST Amount**), and:

(i) where that GST Amount is payable by the Council, the GST Amount will be limited to the amount of the input tax credit (if any) to which the Council (or the representative member of any GST group of which the Council, in any capacity, is a member) is entitled in relation to the Council's acquisition of that supply and is payable within 5 Business Days after the Council (or the representative member of any GST group of which the Council, in any capacity, is a member) has received the benefit of that input tax credit; and

(ii) in any other case, the GST Amount is payable at the same time as any other consideration is to be first provided for that supply; and

(c) the Supplier must provide a tax invoice to the Recipient for that supply, no later than the time at which the GST Amount for that supply is to be paid in accordance with clause 14.3(b) (or the time at which such GST Amount would have been payable in accordance with clause 14.3(b) but for the operation of clause 14.5(a).

14.4 Variation

(a) If the GST Amount properly payable in relation to a supply (as determined in accordance with clause 1414.3 and clause 14.5), varies from the additional amount paid by the Recipient under clause 14.3, then the Supplier will provide a corresponding refund or credit to, or will be entitled to receive the amount of that variation from, the Recipient. Any payment, credit or refund under this clause 14.4(a) is deemed to be a payment, credit or refund of the GST Amount payable under clause 14.3.

(b) The Supplier must issue an adjustment note to the Recipient in respect of any adjustment event occurring in relation to a supply made under or in connection with this Deed as soon as reasonably practicable after the Supplier becomes aware of the adjustment event.

14.5 Exchange of non-monetary consideration

(a) To the extent that the consideration provided for the Supplier's taxable supply to which clause 14.3 applies is a taxable supply made by the Recipient (**Recipient Supply**), the GST Amount that would be otherwise be payable by the Recipient to

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the Supplier in accordance with clause 14.3 shall be reduced by the amount of GST payable by the Recipient on the Recipient Supply.

(b) The Recipient must issue to the Supplier an invoice for any Recipient Supply on or before the time at which the Recipient must pay the GST Amount in accordance with clause 14.3 (or the time at which such GST Amount would have been payable in accordance with clause 14.3 but for the operation of clause 14.5(a)).

14.6 No merger

This clause will not merge on completion or termination of this Deed.

15. Explanatory Note

The Explanatory Note must not be used to assist in construing this Deed.

16. Notices to Parties

16.1 Form

Any notice, consent, information, application or request that must or may be given or made to a Party under this Deed is only given or made if it is in writing and delivered or posted to that Party at its address set out below or faxed to that party at its fax number set out below:

Council

Name:	The Council of the City of Sydney
Address:	456 Kent Street Sydney NSW 2000
Fax:	02 9265 9111
For the attention of:	General Counsel (currently Kirsten Morrin) and with a copy to the Chief Operating Officer (currently Kim Woodbury)

Contractor

Name:	Mirvac Green Square Pty Ltd
Address:	Level 28, 200 George Street Sydney NSW 2000
Fax:	(02) 9080 8111
For the attention of:	The Green Square Project Director; and

Land Owner

Name:	Landcom
Address:	Level 14, 60 Station Street, Parramatta NSW 2150
Fax:	(02) 9841 8777
For the attention of:	The Managing Director

16.2 Change of address

If a Party gives another Party 3 Business Days' notice of a change of its address or fax number, any notice, consent, information, application, or request is only given or made by that other Party if it is delivered, posted or faxed to the latest address or fax number.

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16.3 Receipt

Any notice, consent, information, application or request is to be treated as given or made at the following time:

(a) if it is delivered, when it is left at the relevant address;

(b) if it is sent by post, 2 Business Days after it is posted; and

(c) if it is sent by fax, as soon as the sender receives from the sender's fax machine a report of an error free transmission to the correct fax number.

16.4 Receipt - next Business Day

If any notice, consent, information, application or request is delivered, or an error free transmission report in relation to it is received, on a day that is not a Business Day, after 5pm on that day in the place of the party to whom it is sent, it is to be treated as having been given or made at the beginning of the next Business Day.

16.5 Notices to Land Owner and Contractor

Unless a notice is addressed to both the Contractor and the Land Owner, then:

(a) a copy of any notice addressed to the Contractor must be given to the Land Owner; and

(b) a copy of any notice addressed to Land Owner must be given to the Contractor.

17. Schedules and Annexures to this Deed

The Parties agree:

(a) that all the Schedules and Annexures form part of this Deed;

(b) to comply with the provisions of those Schedules and Annexures; and

(c) the Exhibits do not form part of this Deed and are for information purposes only.

18. Not used

19. General provisions

The Parties agree to the miscellaneous and general provisions set out in Schedule 12.

20. Land Owner's additional obligations under this Deed

In the event that the Contractor's rights to develop the Land pursuant to the legal arrangements the Contractor has with the Land Owner as at the date of this Deed are terminated, then on and from the date of such termination, the Land Owner agrees to perform all the Contractor's obligations under this Deed in accordance with this Deed as if it were the Contractor for the purposes of this Deed, until such time as alternative arrangements are agreed (and legally documented) between the Council and the Land Owner in respect of a new contractor potentially performing some or all of those obligations.

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21. Obligations under this Planning Agreement

(a) Subject to paragraphs (e) and (h) in this clause 21, where a Legal Challenge is commenced the Parties' obligations under this Deed are immediately suspended and neither the Land Owner nor the Contractor shall have any obligation to make any Contributions under this Agreement until the expiration of the Suspension Period or where paragraph (e) of this clause 21 applies.

(b) Subject to paragraph (c) in this clause 21, where any Legal Challenge is commenced and/or where the Court declares or orders the LEP or any Approval to be invalid, the Parties agree to:

(i) meet, no later than 5 Business Days after the date of service of commencement of the Legal Challenge and after any declaration or order that the LEP, the Planning Agreement or Approval (as appropriate) is invalid, to discuss in good faith:

A. the suspension of the Parties' rights and obligations under this Deed; and

B. their intentions in relation to that declaration or order, including, without limitation, any intention to Appeal that declaration or order; and

(ii) consult regularly with the other Party in relation to any Legal Challenge or Appeal and must respond within a reasonable period to each other's questions, queries and enquiries and generally keep each other informed regarding the progress of any such Legal Challenge or Appeal.

(c) The Parties will not be required to meet, or consult, with the other Parties pursuant to paragraph (b) of this clause 21 in circumstances where any of the Parties receives legal advice that it should not so meet or consult with the other Party in connection with any such Legal Challenge or Appeal.

(d) The Parties agree that any discussions held between the Parties under this clause 21 are confidential and that a common interest between them exists for the purposes of legal professional privilege in connection with those discussions.

(e) Notwithstanding paragraph (a), the Contractor and the Land Owner may elect at their Cost and risk to proceed with the Development and continue to comply with their obligations under this Deed unless and until such time as the LEP, the Planning Agreement or Approval (as appropriate) is declared invalid.

(f) Where paragraph (e) applies, the Council agrees to cooperate in good faith with the Contractor and the Land Owner to progress the Development during the Suspension Period.

(g) Where the Council suspends the roll-out of the whole or any part of the Green Infrastructure and the Council Road Works during the Suspension Period, but the Contractor and the Land Owner wish to continue with the Development, the Contractor and/or the Land Owner may elect at their Cost and risk to step-in to complete certain parts of the Green Infrastructure and the Council Road Works for which the Council is responsible with the Council's consent, on terms to be agreed between the Parties in writing.

(h) The Parties agree that if this clause 21 applies and there is a suspension of the Parties' obligations under this Deed, where necessary, any Works that have been

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commenced, but not completed, will be left in a state that is safe to the public before Works cease notwithstanding the commencement of the Suspension Period.

(i) If this Deed is terminated as the result of any Legal Challenge or Appeal, the Council agrees to reimburse the Contractor and the Land Owner any Contribution Amount paid under this Deed and the Parties will meet in accordance with paragraph (b) of this clause 21 to discuss the return of the Bonds and any matters that may need to be addressed as a result of the commencement of the Contribution Works

(j) If the LEP is declared invalid, the Contractor and the Land Owner shall not have any obligation to make any of the Contributions under this Deed and, on resolution of the matters in paragraph (i) of this clause 21, this Deed will terminate.

(k) If an Approval is declared invalid, the Parties will meet in accordance with clause 21(b) of this Deed to discuss their respective rights and obligations under this Deed as a consequence of that determination.

(l) If the Contractor and the Land Owner elect to proceed with the Development notwithstanding paragraphs (a), (f) and (g), then the Contractor and the Land Owner are liable for and indemnify the Council against all liability, loss, Costs and expenses (including Legal Costs) directly arising from or incurred in connection with the Contractor and the Land Owner proceeding with the Development despite the Legal Challenge and the operation of paragraphs (a), (f) and (g).

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Schedule 1 - Section 7.4 Requirements

The Parties acknowledge and agree that the table set out below provides for certain terms, conditions and procedures for the purpose of the Planning Agreement complying with the EP&A Act.

Requirement under the EP&A Act	This Planning Agreement
Planning instrument and/or development application - (Section 7.4(1)) The Contractor has: (a) sought a change to an environmental planning instrument. (b) made, or proposes to make, a Development Application. (c) entered into an agreement with, or is otherwise associated with, a person, to whom paragraph (a) or (b) applies.	(a) Yes (b) Yes (c) No
Description of land to which this Deed applies - (Section 7.4(3)(a))	The Land described in paragraph 2 of Schedule 2.
Description of change to the environmental planning instrument or the development to which this Deed applies - (Section 7.4(3)(b)) Describe: (a) the proposed change to the environment plan to which this Deed applies; **OR** (b) the development to which this Deed applies.	(a) N/A (b) The Development described in paragraph 2 of Schedule 2.
The scope, timing and manner of delivery of contribution required by this planning agreement - (Section 7.4(3)(c))	As set out in the Contributions Schedule
Applicability of Section 7.11 of the EP&A Act - (Section 7.4(3)(d))	The application of section 7.11 of the EP&A Act is excluded in respect of the Development.
Applicability of Section 7.12 of the EP&A Act - (Section 7.4(3)(d))	The application of section 7.12 of the EP&A Act is excluded in respect of the Development.
Applicability of Section 7.24 of the EP&A Act - (Section 7.4(3)(d))	The application of section 7.24 of the EP&A Act is not excluded in respect of the Development.

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Requirement under the EP&A Act	This Planning Agreement
Consideration of benefits under this Deed if section 7.11 applies - (Section 7.4(3)(e)) Are the benefits under this Deed to be taken into consideration if Section 7.11 of the EP&A Act is not excluded?	Not applicable
Mechanism for Dispute resolution - (Section 7.4(3)(f)) This Deed provides a mechanism for the resolution of disputes under the agreement?	Refer to clause 12 and Schedule 7.
Enforcement of this Deed (Section 7.4(3)(g) and section 7.6) This Deed provides for enforcement by a suitable means in the event of a breach.	Refer to clauses 5, 6, 8, 9 and 13 and Schedule 5 and Schedule 10
Registration of this Deed The Parties agree that this Deed will be registered in accordance with clause 6.	Yes
No obligation to grant consent or exercise functions - (Section 7.4(9)) The Parties acknowledge that this Deed does not impose an obligation on a planning authority to grant a Development Consent, or to exercise any function under the EP&A Act in relation to a change to an environmental planning instrument.	Refer to paragraph 1.8 of Schedule 13.

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Schedule 2 - Description of the Land and the Development

1. Green Square Town Centre Land

Lots 1, 4, 5, 6 and 7 in DP 1199427 in the Green Square Town Centre Land Plan in this Schedule.

2. Land

Land means Lot 6 in DP 1199427.

3. Development

Development means the development and use of the Land substantially as permitted by the LEP, including but not limited to subdivision, low, medium and high density residential housing, commercial development, retail development, car parking, roads, utilities, associated services and open space.

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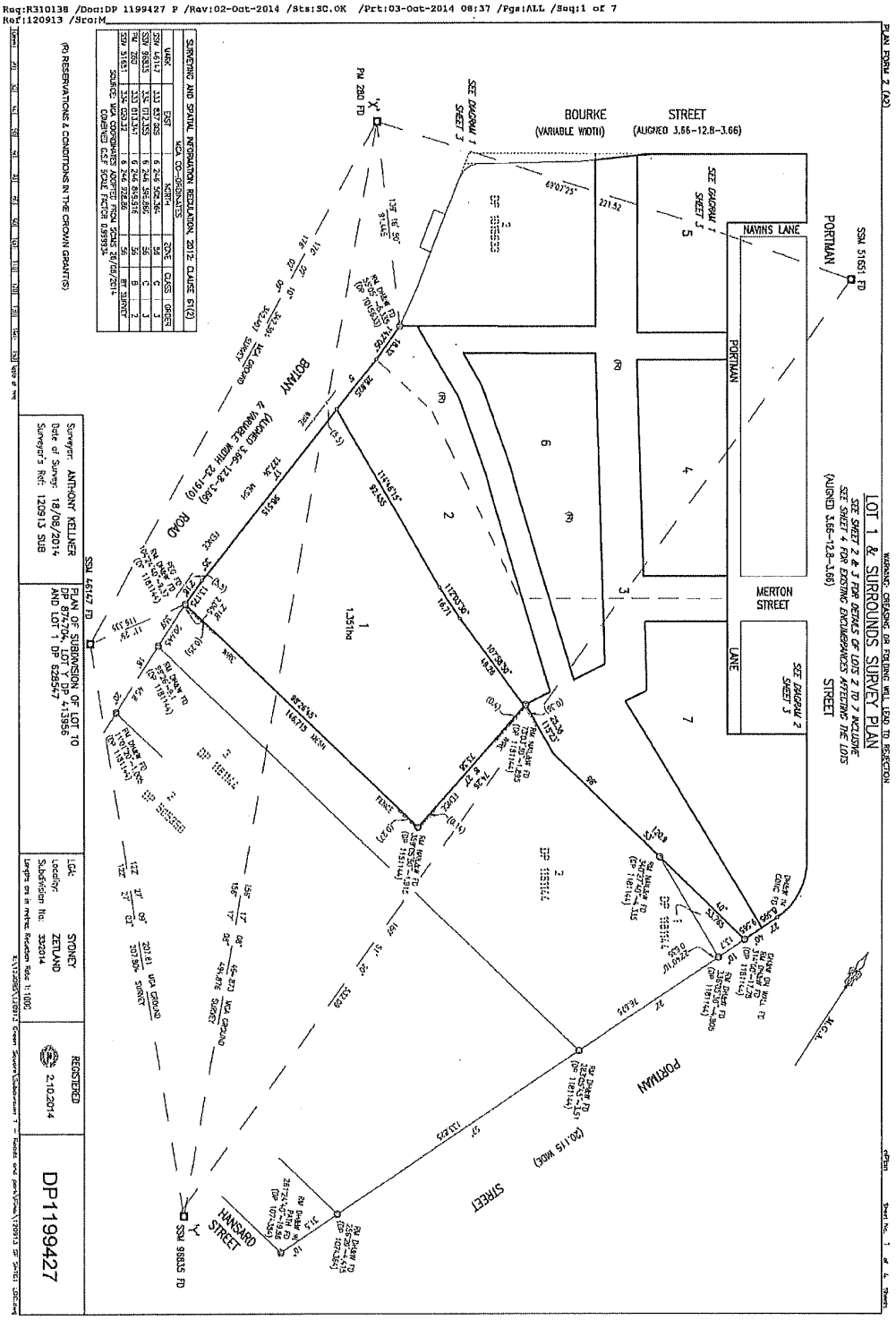
4. Green Square Town Centre Land Plan



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Schedule 3 - Contributions Schedule

1.1 Contributions Tables

Table 1 - Contribution Amounts

Contribution		Date Contribution Amount is payable
1.	Monetary Contribution of $6,278,386.03as of 30 June 2012 and indexed in accordance with paragraph 1.2 below	To be paid prior to the date on which a Construction Certificate is issued in respect of works required to be completed to create any part of Habitable Space on the Development Site 7.
2.	Monetary Contribution of $3,415,458.69 as of 30 June 2012 and indexed in accordance with paragraph 1.2 below	To be paid prior to the date on which a Construction Certificate is issued in respect of works required to be completed to create any part of Habitable Space on the Development Site 17.
3.	Monetary Contribution of $2,843,839.19 as of 30 June 2012 and indexed in accordance with paragraph 1.2 below	To be paid prior to the date on which a Construction Certificate is issued in respect of works required to be completed to create any part of Habitable Space on the Development Site 18.

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Table 2 - Contribution Land

Contribution		Date Contribution Land is to be dedicated as public road or transferred to Council for future dedication by Council as public road
1.	**The Contribution Land for Roads - Area 10** The transfer of the fee simple in stratum of part of the Land, being land marked as Area 10 (approximately 475 square metres) on Map 2 – Contribution Land in Schedule 3, to the Council, unlimited in height and to a depth determined by the Contractor which must be at least 1.5 metres below finished surface design level as detailed in the Essential Infrastructure DA Plans. The Contractor may request the works be done as Contribution WIK at the Contractor's risk and at a cost and any offsets to be agreed between the Council and the Contractor having regard to the Construction Cost (with the necessary changes made to this definition to apply to these works).	To be transferred (or otherwise dedicated, where agreed by all parties) 9 months prior to the date on which the first Occupation Certificate is issued which relates to any part of Habitable Space on the Development Sites 7 and 17.
2.	**The Contribution Land for Roads - Area 11** The transfer of the fee simple in stratum of part of the Land, being land marked as Area 11 (approximately 317 square metres) on Map 2 – Contribution Land in Schedule 3, to the Council, unlimited in height and to a depth determined by the Contractor which must be at least 1.5 metres below finished surface design level as detailed in the Essential Infrastructure DA Plans. The Contractor may request the works be done as Contribution WIK at the Contractor's risk and at a cost and any offsets to be agreed between the Council and the Contractor having regard to the Construction Cost (with the necessary changes made to this definition to apply to these works)..	To be transferred (or otherwise dedicated, where agreed by all parties) 9 months prior to the date on which the first Occupation Certificate is issued which relates to any part of Habitable Space on the Development Sites 17 and 18.

The areas set out in Table 2 – Contribution Land are indicative only and are subject to survey.The timeframes and dates set out in the second column of Table 2 – Contribution Land are subject to the extension of time regime in clause 1.3 of this Schedule 3.

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Table 3 - Contribution WIK

Contribution		Date Contribution Works are to be delivered/Practically Completed
1	**Remediation of lands to be dedicated or transferred** The Land Owner must ensure that, prior to a part of the Contribution Land being transferred to the Council in accordance with dates in Table 2, that part of the Contribution Lands is to be remediated so that Council is then able to carry out the Council Road Works (including the installation of services and other works required to complete the Council Road Works) on that part of the Contribution Land. Suitably remediated or uncontaminated select sub-grade(- 40mm gravel) material (compacted to 97% of the modified compaction standards) or material required by the Remediation Action Plan or as otherwise agreed by the Parties must be provided at least 150mm thick with an identification marker fabric across the whole area to the indicated levels in (a) and (b) below: a. Areas , 10 and 11: 700 mm below design surface levels as indicated in the Essential Infrastructure DA Plans and with any relevant environmental planning instruments and approvals and all structures, footings, redundant underground services, culverts and kerbs removed to that depth; The Contractor must remove and Remediate any underground storage tanks from the Contribution Lands that are identified in the Remediation Action Plan and required to be removed from the Contribution Lands under the Remediation Action Plan or as otherwise uncovered by the Contractor irrespective of the depth at which those underground storage tanks are located. If there is a risk of pollutants migrating from the Contribution Land below the minimum depth and interim cap level, then the Contractor must remediate below that level to remove that risk. The Contractor will engage a site auditor to prepare the Contractor Remediation Statement in accordance with the Remediation Action Plan and anything else required by law,	To be Practically Completed and the Contractor Remediation Statement provided to Council prior to the date the part of the Contribution Land is to be dedicated or transferred as listed in Table 2 – Contribution Lands of this Schedule.

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	including under the *Contaminated Land Management Act*. The Contractor must supply and install a security fence adjacent to the Contribution Lands prior to transfer to the Council to prevent public access on to those parts of the Site which have not been Remediated.	

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Table 4 - Green Infrastructure Contribution Works

Contribution		Date Contribution is to be delivered/Practically Completed
1.	**Non-Potable Recycled Water Network** The Contractor must design and construct all Buildings to provide a dual reticulation water system for water consumption. The system must be capable of fully connecting to the Non-Potable Recycled Water Network provided by the Council in Green Square and must be configured to supply all toilets, washing machine locations, any car wash bays, any cooling towers and irrigation usage on the Land. As part of these requirements, the Contractor must: a) connect to the non-potable recycled water pipes installed by Council or in the event that the Council's Non-Potable Recycled Water Network system is not operational at that time, connect the non-potable water pipes in the Building to the town water (potable) pipes downstream of the Sydney Water town water meter (**Non Potable Water Connection Point**); b) provide space of 1m x 1m by 2.4m (or as otherwise agreed by Council) to accommodate metering equipment, isolation valves and incoming pipes for non-potable recycled water at the Non Potable Water Connection Point at a location to be agreed between the parties (**Non-Potable Recycled Water Room**); c) provide space and access from the property boundary to the Non Potable Water Connection Point of 1 metre in width for installation of recycled water pipes by Council (**Non-Potable Recycled Water Access Space**); d) design the Building so that it is capable of connecting to a non-potable recycled water supply with static pressure of a minimum of 15m/head at the property boundary; and e) design the Building on the basis that Council will procure a non-potable recycled water supply quality which complies with the Australian Guidelines for Water Recycling for use in toilets, washing machine taps, car wash bays, cooling towers and irrigation usage. The level of	Prior to the issue of an Occupation Certificate for each Building.

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	total dissolved solids level in the non-potable water supply shall be in accordance with the Australian Guidelines for Water Recycling and be less than 300 ppm 95% of the time.	
2.	**Space Cooling System** The Contractor must undertake the following: **2.1 Space Cooling - Residential Units and Common Areas within a Residential Building greater than 15 storeys in height above street frontage ground level** Where air conditioning package or other systems requiring a refrigerant are installed for space cooling: 1) heat rejection must be via a central condenser water system 2) the air conditioning unit provided must have an energy efficiency rating (EER) for cooling of 3.5 or greater. **2.2 Space Cooling - Residential Units and Common Areas within a Residential Building 15 storeys or less in height above street frontage ground level** 1) Where an air conditioning unit is provided it must be of the Inverter type if a single evaporator is connected to the condensing unit or of Variable Refrigerant Flow (VRF) type if more than one evaporator is connected to the condenser. In either case the units must have an energy efficiency rating (EER) for cooling of 3.1 or greater. 2) The Contractor may (but is not obliged to) design, construct and configure these Buildings with the same specifications that apply to the Buildings in point 2.1 above. **2.3 Space Cooling - Retail Space within a Residential Building** Same as required as for a Residential Building, except: 1) Where the individual or group of individual retail units for the one user has an area that exceeds 2000 square metres and requires a chilled water air conditioning or refrigeration system it must be primarily supplied by heat fired adsorption, absorption chillers provided by the Contractor. 2) If a chilled water system is not used a Variable Refrigerant Flow (VRF) system or a stand alone condenser water system	Prior to the issue of an Occupation Certificate for each Building.

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	package, air handling units may be installed. The system must have an energy efficiency rating (EER) of 3.5 or greater for cooling or a coefficient of performance (COP) rating of 3.5 or greater for heating. 3) Any electric chiller provided by the Contractor must have a coefficient of performance (COP) rating of 6 or greater.	
3.	**Air conditioning refrigerant** Where an air conditioning package or other system requires a refrigerant for space heating and/or cooling then: 1. The Contractor must ensure that the refrigerant used in the system has a Global Warming Potential (**GWP**) of 3 or less to ensure maximum greenhouse gas equivalent abatement if such system is available in suitable capacity ranges to match the design of conventional systems from at least three established suppliers on similar terms to conventional systems and at market rates which are not more than 10% higher than the market rates for conventional systems; and 2. if the Contractor is not required to have a refrigerant with a GWP or 3 or less, the Contractor must use its reasonable endeavours to use a system with a refrigerant which has the lowest commercially available GWP if such system is available in suitable capacity ranges to match the design of conventional systems from at least three established suppliers on similar terms to conventional systems and at market rates which are not more than the market rates for conventional systems.	Prior to the issue of an Occupation Certificate for each Building.
4.	**Easements** **Non Potable Recycled Water Network** The Contractor must procure registration of the following easements relating to the Non-Potable Recycled Water Network in the relevant folio or folios of the Register for that part of the Land containing the easement sites: 1) the Non-Potable Recycled Water Room; 2) the Non-Potable Recycled Water Access Space;	Prior to the issue of an Occupation Certificate for each Building.

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	1) any other spaces in the Building required for the Non-Potable Recycled Water Network; 3) infrastructure (including pipes, meters and connection points) relating to the Non-Potable Recycled Water Network located in the Building that will be owned by Council; and 4) Council access to the Building after the Completion Date to construct, Deliver and Connect the Non-Potable Water Network, disconnect the pipes from the town water (potable) and maintain that Non-Potable Water Network. **Restrictions** 1) For each Building, the Contractor must procure the Registration of all restrictions contained in Table 4 of Schedule 3 on the use of the Land relevant to that Building and applicable to the owners and occupiers of the Building after the Completion Date in any Strata Management Statement that is Registered in respect of that Building. *2)* For each Building, the Contractor must procure the Registration of all restrictions contained in Table 4 of Schedule 3 on the use of the Land relevant to that Building and applicable to the owners and occupiers of the Building after the Completion Date in the relevant folio or folios of the Register for that part of the Land comprising that Building.	

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Table 5 - Other Public Benefits

Contribution		Date Contribution is to be provided
1.	The Contractor must (at its cost and risk) procure the: (a) creation of easements under section 88B of the *Conveyancing Act* 1919 that burden the relevant parts of the Land shown in Map 3 – Schedule 3 and benefits the Council for the purpose of public access ways on the Land to the satisfaction of the Council. Details and locations of these easements are shown in Map 3 – Land to be Affected by Easements in Schedule 3; and (b) registration of each easement in the folio of the Register for that part of the Land containing the easement site.	For each easement on the Land that has its easement site within a Development Site, the easement is to be created on or before the Completion Date of the Building on the Development Site on which the easement site is situated. For each easement that has its easement site outside a Development Site, the easement is to be created on or before the Completion Date of the last Building that includes Habitable Space for the Development Sites adjoining the easement site.

1.2 Increase in Contributions

(a) If the Contributions Tables state that the Contribution Amount will be increased, then the amount specified for that Contribution Amount in the Contributions Tables must be increased in accordance with the formula set out below:

$$\frac{Contribution\ Amount\ x\ CPI}{LCPI}$$

where:

CPI = the CPI last published before the due date for payment of that Contribution Amount; and

LCPI = the CPI last published before 30 June 2012.

No increase or other change will be made to the Contributions Amount, where LCPI is greater than CPI.

Note: the Sydney Consumer Price Index (All Groups) is to be used

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MAP1 - SITE IDENTIFICATION PLAN
STAGE 3

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MAP2 - CONTRIBUTION LAND
STAGE 3

Consolidated stage boundary
Development sites
Area 1 – Roads to be dedicated in fee simple
Area 2 – Roads to be dedicated in fee simple
Area 3 – Public Plaza, community facility and road to be dedicated in fee simple
Area 4 – Roads to be dedicated in stratum
Area 5 – Footpath to be dedicated in stratum for width of 1.4m
Area 6 – Footpath to be dedicated in stratum for width of 1.4m
Area 7 – Footpath to be dedicated in stratum for width of 1.4m
Area 8 – Roads to be dedicated in fee simple
Area 9 – Roads to be dedicated in fee simple
Area 10 – Roads to be dedicated in stratum
Area 11 – Roads to be dedicated in stratum

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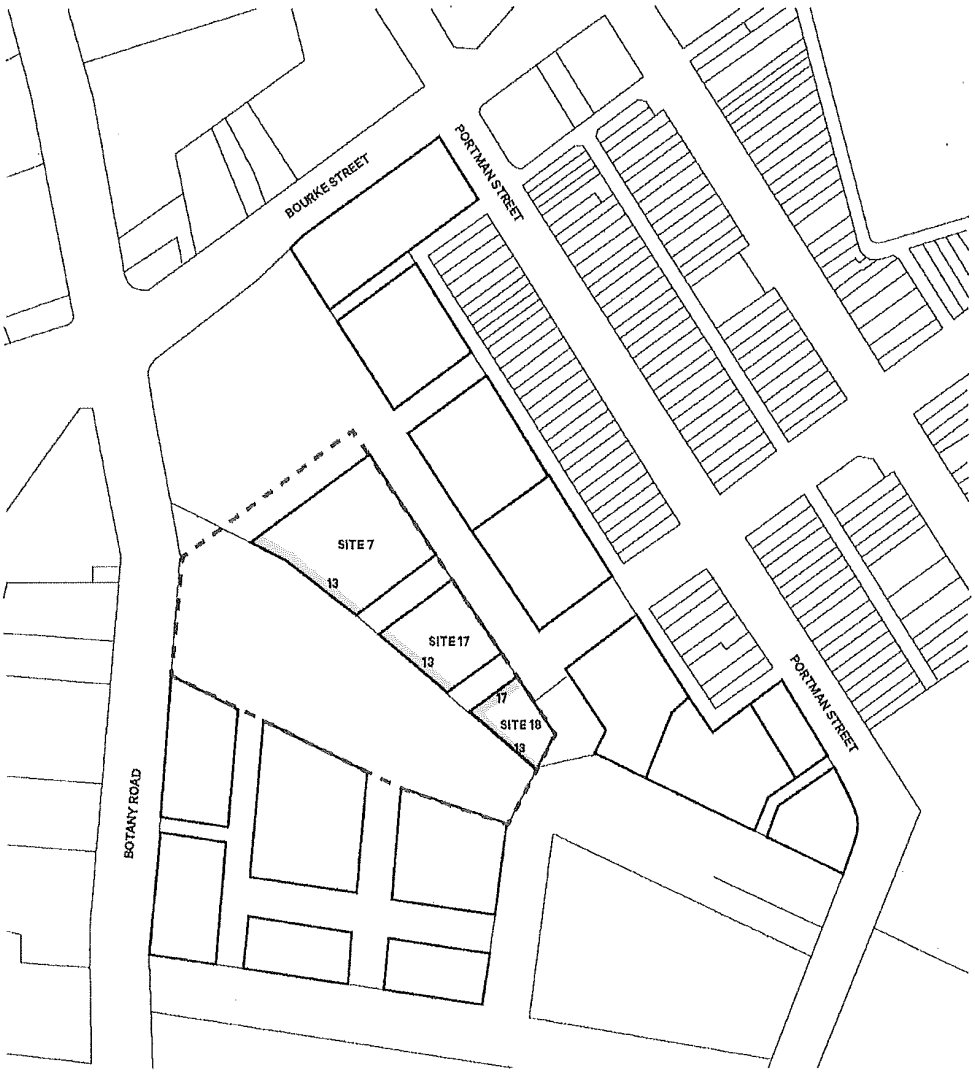
MAP3 - LAND TO BE AFFECTED BY EASEMENTS
STAGE 3



Consolidated stage boundary
Development sites
Area 13 – Easement for footpath widening, 3m wide at ground floor
Area 14 – Easement for footpath widening, 1.5m wide at ground floor
Area 15 – Easement to allow access for the public, for a width of 6m clear to the sky. 3m wide bridge may connect adjacent sites.
Area 16 – Easement to allow access to public, for width of 6m clear to the sky
Area 17 – Easement for colonnades, 5m wide at ground and first floor

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Schedule 4 - Contribution Works Procedures

This Schedule 4 applies to the Contribution Works.

1.1 Approvals and Design responsibility

(a) The Contractor must at its Cost and risk:

(i) prepare all Applications and obtain all Approvals necessary to carry out the Contribution Works, except for the Essential Infrastructure DA;

(ii) comply with all conditions of all such Approvals; and

(iii) comply with those conditions of the Essential Infrastructure DA agreed between the parties which are to be the responsibility of the Contractor in accordance with the principles set out in Schedule 19.

(b) The Contractor agrees to procure the design of the Contribution Works (so as to enable the achievement of Practical Completion of each Contribution Works Portion) in accordance with this Deed.

1.2 Construction phase

(a) Subject to paragraph 1.2(b) of this Schedule 4, the Contractor must procure the execution and completion of the Contribution Works in accordance with:

(i) the Approvals;

(ii) Schedule 3; and

(iii) its other obligations under this Deed.

(b) The Contractor must not commence construction of any of the Contribution Works until it has given the Council copies of the Construction Certificate relating to the Contribution WIK.

1.3 Review of Contribution Works and Construction Documents

The Contractor acknowledges and agrees that:

(a) the Council may, but is not obliged to review the plans and specifications of the Contribution Works;

(b) the Council is not responsible for any errors omissions or non-compliance with any Law or the requirement of any Authority by reason of agreeing to the plans and specifications of the Contribution Works;

(c) the Council is not liable for any liability, loss or Cost incurred by the Contractor because of any defect in the design or construction of any part of the Contribution Works; and

(d) no comment, review or information supplied to the Contractor by the Council alters or alleviates the Contractor from its obligation to construct and complete the Contribution Works in accordance with this Deed; and

(e) the Council must, if it elects to review the plans and provide comments in accordance with this paragraph 1.3, provide those comments to the Contractor within 20 Business Days of receipt.

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1.4 Contractor responsibilities

(a) Prior to Practical Completion, the Contractor is responsible for:

(i) providing all things and taking all measures reasonably within its control to protect people and property in relation to the Land where failure to do so may render the Council or the Contractor liable under the Law; and

(ii) taking any urgent action in relation to the Land necessary to protect people and the consequences of any failure to take such action where failure to do so may render the Council or the Contractor liable under the Law.

1.5 Damage

If the Contractor or the employees or agents of the Contractor in conducting the Contributions Works damage any public utilities and services or property on or adjacent to the Land, the Contractor must promptly make good the damage and pay any compensation which the Law requires the Contractor to pay.

1.6 Best Industry Practice

The Contractor must ensure that the Contribution Works it has procured to be designed and carried out are designed and carried out according to Best Industry Practice.

1.7 Quality of Material and Work

The Contractor must procure the Contribution Works to be carried out:

(a) in accordance with the relevant Approvals;

(b) using good quality materials, which must be suitable for the purpose for which they are required under this Deed;

(c) in compliance with relevant standards determined by Australian Standards Limited, the Building Code of Australia and any relevant manufacturers' standards; and

(d) so that the Contribution GI Works, when completed, comply with the specifications in Table 4 of the Contributions Schedule.

1.8 Insurance

The Contractor must ensure that there is effected and maintained an insurance policy covering such risks, and on terms, reasonably acceptable to the Council, including:

(a) physical loss, damage or destruction of each Contribution Works Portion (including any associated temporary works);

(b) third party liability;

(c) contractors; and

(d) professional indemnity insurance with respect to design works only.

The policy must provide cover for the period from the date of the commencement of construction of the relevant Contribution Works Portion until the end of any relevant Defects Liability Period for that Contribution Works Portion.

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1.9 Amount of property insurance

The insurance cover in relation to works insurance must be for an amount not less than the full insurable value of the relevant Contribution Works Portion on a full reinstatement and replacement basis (including extra Costs of reinstatement, Costs of demolition and removal of debris, and professional fees).

1.10 Insurance generally

All insurances which the Contractor is required by this Deed to effect and maintain:

(a) must be with insurers;

(b) must note the rights and interests of the Council; and

(c) must not in any respect limit or derogate from the liabilities or obligations of the Contractor under this Deed.

1.11 Self-insurer

(a) the Land Owner warrants, and Council acknowledges, that:

(i) the Land Owner is a member of the NSW Treasury Managed Fund; and

(ii) the Fund provides the Land Owner with insurance cover against liability arising from a breach by the Land Owner of its obligations under this Deed.

(b) the Land Owner warrants that, in the event it is no longer a member of NSW Treasury Managed Fund, it will provide suitable insurance which satisfies the requirements of paragraphs 1.8 - 1.10 (inclusive) of this Schedule 4.

(c) Where the Land Owner becomes the Contractor, the obligations in paragraphs 1.8 - 1.10 (inclusive), 1.12 - 1.14 (inclusive) of this Schedule 4 do not apply.

This clause 1.11 of Schedule 4 only applies while Landcom is the Land Owner.

1.12 Providing proof of insurance

Whenever reasonably requested in writing by the Council, the Contractor must give the Council certificates of the insurance policies which the Contractor is required by this Deed to effect and maintain.

1.13 Premiums

The Contractor must punctually pay all premiums in respect of all insurances.

1.14 Additional Obligations

The Contractor must:

(a) not do or omit to do anything which if done or not done might vitiate, impair, derogate or prejudice any insurance or might prejudice any claim under any insurance policy;

(b) if necessary, rectify anything which might prejudice any insurance policy;

(c) reinstate an insurance policy if it lapses;

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(d) immediately notify the Council in writing if an insurer gives notice of cancellation in respect of any insurance policy; and

(e) give full, true and particular information to the insurer of all matters and things the non-disclosure of which might in any way prejudice or affect any such policy or the payment of all or any benefits under the insurance.

1.15 Application of insurance proceeds

If all or any part of the Contribution Works is damaged or destroyed prior to Practical Completion thereof:

(a) all insurance proceeds in respect of that damage or destruction must be applied to repair or reinstate the Contribution Works, except if the damage or destruction is caused by the Council;

(b) if the insurance proceeds received under the insurances in respect of the damage or destruction are less than the cost of repairing or replacing the Contribution Works (or those insurances are void or unenforceable and there are no proceeds), the Contractor must complete the repair and replacement of the Contribution Works using its own funds; and

(c) if the insurance proceeds received under the insurances in respect of the damage or destruction exceed the Costs of repairing or replacing the Contribution Works, the Contractor will be entitled to keep that excess.

1.16 Input tax credits

Where the Contractor has effected any insurance policy referred to in this Deed before the date of this Deed, the Contractor:

(a) warrants that it informed the insurer of the extent of its entitlement to an input tax credit for the last premium it paid at or before the time of first making any subsequent claim under the insurance policy; and

(b) must inform the insurer of the extent of its entitlement to an input tax credit for any future premium it pays immediately after paying that premium.

Where the Contractor effects any insurance policy referred to in this Deed after the date of this Deed, the Contractor must inform the insurer of the extent of its entitlement to an input tax credit for any premium it pays immediately after paying that premium.

1.17 Certification

(a) When the Contractor is of the opinion that a Contribution Works Portion has reached Practical Completion, the Contractor must:

(i) for the Contribution GI Works request the relevant Certifier to issue a certificate confirming Practical Completion of the relevant Contribution Works Portion (Certificate of Practical Completion);

(ii) for the Remediation Works, request the relevant Certifier to issue the Contractor Remediation Statement ; and

(iii) at the same time give the Council a copy of that request.

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1.18 Certifier to respond

Within 25 Business Days after the receipt of the Contractor's request, the Contractor must procure the Certifier to either:

(a) give the Contractor (with a copy to the Council at the same time):

(i) a Certificate of Practical Completion certifying that the Contribution GI Works has reached Practical Completion;

(ii) the Contractor Remediation Statement; or

(b) give the Contractor (with a copy to the Council at the same time) the reasons for not issuing that certificate and provide a detailed list of work required to be completed in order for that certificate to be issued.

1.19 Dispute where no Certificate of Practical Completion

If within 25 Business Days after receipt of the Contractor's request the Certifier does not:

(a) issue the Certificate of Practical Completion of the Contribution GI Works or the Contractor Remediation Statement (as the case may be); or

(b) give the Contractor reasons for not issuing the certificate,

then either the Council or the Contractor may regard the circumstances as constituting a dispute between the Council and the Contractor.

1.20 Dispute of detailed list

(a) If the Certifier issues the detailed list referred to in paragraph 1.18(b), then the Contractor may dispute the detailed list within 10 Business Days of the detailed list being issued by notice in writing to the Certifier.

(b) If the Certifier and the Contractor are not able to resolve the dispute about the detailed list within 15 Business Days of the Contractor notifying the Certifier of the dispute about the detailed list, then either the Council or the Contractor may regard the circumstances as constituting a dispute between the Council and the Contractor.

(c) If the Certifier and the Contractor resolve the dispute about the detailed list, then the Certifier must provide an updated detailed list or withdraw the detailed list and issue the Certificate of Practical Completion or the Contractor Remediation Statement (as the case may be).

1.21 Carrying out required work

(a) On receipt of the detailed list referred to in paragraph 1.18(b) in this Schedule 4 or the updated detailed list referred to in paragraph 1.20(c) in this Schedule 4, the Contractor must carry out the work referred to in that list and, on completion of that work, request the Certifier to issue a Certificate of Practical Completion or Contractor Remediation Statement (as the case may be).

(b) If the Certifier is satisfied that all such work has been completed in accordance with this Deed then, the Contractor must procure the Certifier to issue the Certificate of Practical Completion or the Contractor Remediation Statement (as the case may be) within 25 Business Days after receipt of the Contractor's request. Otherwise the provision of paragraphs 1.17 to 1.20 in this Schedule 4 inclusive re- apply.

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1.22 Prerequisites for Certificate of Practical Completion

Despite paragraph 1.19 in this Schedule 4, a Certificate of Practical Completion for a Contribution Works Portion may not issue unless and until:

(a) where relevant copies of all necessary documents and Approvals issued by the Consent Authority or relevant accredited certifier acknowledging completion of the Contribution Works Portion, and if appropriate permitting use and occupation (if applicable) of the Contribution Works Portion, including an Occupation Certificate (if required) have been delivered to the Council; and

(b) copies of all other certificates, consents and Approvals required of any relevant Authority, whose certificate, consent or approval is required for the erection, use or occupancy of that Contribution Works Portion have been delivered to the Council;

1.23 Bond

Except in relation to the Remediation Works, if there is a defect or omission in relation to a Contribution Works Portion which prevents the Certificate of Practical Completion being issued, and, if the Council (acting reasonably) agrees to accept a Bond to secure completion of that defect or omission, then:

(a) if the Contractor agrees, the Contractor must:

(i) provide the Bond for the amount required by the Council (acting reasonably) to secure that defect or omission; and

(ii) undertake in writing to rectify that defect or omission within the time nominated by Council (acting reasonably);

(b) upon receipt of the Bond and the Contractor's undertaking, the Council will direct the relevant Certifier to disregard that defect or omission for the purposes of certifying Practical Completion of that Contribution Works Portion;

(c) the Contractor must rectify the defect or omission in accordance with its undertaking; and

(d) if the Contractor fails to rectify the defect or omission in accordance with its undertaking, then the Council may call on the Bond in accordance with paragraph 8 of Schedule 10 and/or rectify the breach in accordance with paragraph 2 of Schedule 6.

1.24 Providing documents to the Council

If the Council reasonably so requires, the Contractor must use all reasonable endeavours to procure the issue and delivery to the Council of copies of the following items (as may be relevant) in relation to each Contribution Works Portion:

(a) a copy of as built drawings and all warranties and operations manuals given in connection with the Contribution Works Portion; and

(b) a copy of all certificates issued by any Authority in relation to any part of the Contribution Works Portion which have not previously been delivered to the Council,

promptly, and in any event within 90 Business Days, after Practical Completion.

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1.25 Rectification

(a) At any time during the Defects Liability Period (in respect of a Contribution Works Portion), the Council may inspect the Contribution Works Portion for the purpose of ascertaining what defects and omissions (if any) in the Contribution Works Portion are required to be made good by the Contractor.

(b) The Council may give notice to the Contractor that:

(i) states that part of the Contribution Works Portion is defective, giving details;

(ii) specifies the works which the Council considers are required to rectify the defect;

(iii) provides a reasonable estimate of the Costs and Legal Costs to rectify such works, including particulars of how those Costs and Legal Costs were calculated; and

(iv) allows the Contractor a reasonable period to rectify such works.

(c) The Contractor must rectify any defects or omissions in the Contribution Works Portion which are identified in a notice issued in accordance with paragraph 1.25(b) of this Schedule 4. For the avoidance of doubt, this obligation applies to the Remediation Works, including after the transfer of the Contribution Land.

(d) If the Contractor fails to complete or rectify such works within the period required by a notice issued under paragraph 1.23(b) of this Schedule 4, then the Council may have such works completed or rectified and the Contractor must reimburse the Council promptly following any demand by the Council for all Costs and reasonable Legal Costs incurred by the Council in completing or rectifying such works.

(e) The Contractor indemnifies the Council for all monies payable by the Contractor to the Council pursuant to paragraph 1.25(d) of this Schedule 4.

(f) The indemnity in paragraph 1.25(e) of this Schedule 4 is a continuing obligation, separate and independent from the Contractor's other obligations and survives completion, rescission or termination of this Deed. The Contractor must pay on demand any amount it must pay under the indemnity in paragraph 1.25(e) of this Schedule 4.

1.26 NOT USED

1.27 Development Program

The Contractor must provide an updated Development Program to the Council from time to time as the Development progresses, and as a minimum must provide an updated program:

(a) as soon as possible upon lodgement of an Application for construction of a Building with the relevant Consent Authority;

(b) whenever there are delays in the Development which materially impact on the milestones identified in the previous Development Program provided to Council which relate to the issue of a Construction Certificate or Occupation Certificate; and

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(c) no less than 6 months before the Contractor lodges an Application for an Occupation Certificate for any Building with the relevant Consent Authority.

1.28 Remediation

(a) The Contractor must:

(i) engage a Site Auditor for the works identified in this paragraph 1.28 including the preparation of the Contractor Remediation Statement;

(ii) prepare and submit to the Site Auditor for approval and obtain a Remediation Action Plan that:

A. sets out those works to be carried out by the Contractor consistent with the requirements in the Contributions Schedule which will then permit the Council to carry out the Council Road Works (including the installation of services and other works required to complete the Council Road Works on the Contribution Lands (**Stage 1 Remediation**);

B. in relation to the Remediation Works, sets out a certification process to certify that Contribution Lands have been Remediated in accordance with the Remediation Action Plan and the Contributions Schedule (**Contractor Remediation Statement**).

C. sets out a certification process that certifies that the Contribution Lands are Remediated following the completion of the Council Road Works (**Stage 2 Remediation**) (**Council Remediation Statement**);

D. includes a site management section which sets out what must be done to maintain the interim cap forming part of the Remediation Works, including the monitoring of the interim cap, until such time as the Stage 2 Remediation is completed; and

E. provides that the Environmental Consultant must also include sufficient detail to be used by the parties as a dilapidation report.

(iii) unless otherwise set out in the Remediation Action Plan, procure the preparation of an environmental management plan to regulate the access of the Contribution Lands below the capping put in place by the Contractor in accordance with the Contributions Schedule;

(iv) comply with all legislation and guidelines in carrying out the Remediation Works; and

(v) satisfy any conditions in the Contractor Remediation Statement and the Stage 1 Remediation in the Remediation Action Plan, including any ongoing monitoring obligations, including after the transfer of the Contribution Land, except to the extent such obligations are the responsibility of the Council in clause 1.28(b)..

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(a1) The Council will be responsible for monitoring the surface of the interim cap forming part of the Remediation Works after the Contribution Land is transferred to Council.

(b) Nothing in this Deed obliges the Contractor to undertake:

(i) Remediation except in accordance with the Contributions Schedule;

(ii) the Council Remediation Statement; or

(iii) the construction of the Public Plaza and the Council Road Works (including the installation of any services in the roads); or

(iv) after the Contribution Lands are transferred to the Council, any works on the Contribution Lands which are required as a result of the ongoing monitoring to be carried out by the Contractor, unless such works are the result of a defect in the Remediation Works in which case the Contractor must carry out such works as are required under the Remediation Action Plan or the Contractor Remediation Statement to rectify such defect during the Defects Liability Period.

(c) Subject to paragraph 1.28(d) on and from transfer of the Contribution Land, the Contractor and Land Owner release the Council from all claims, actions, demands, losses, damages, reasonable Costs and reasonable Legal Costs suffered or incurred by the Council as the result of migrating Contaminants from the Contribution Lands onto the Land owned by the Land Owner and being developed by the Contractor.

(d) The release in paragraph 1.28(c) operates only until the date which is the earlier of:

(i) the date which is 5 years after the Occupation Certificate for the Building adjoining each portion of the relevant Contribution Land; and

(ii) in respect of any part of the Land sold by the Land Owner (other than Land on which a strata titled Building has been or is being constructed), provision to Council of a duly executed covenant from the purchaser of that sold Land in favour of the Council containing the release in paragraph 1.28(c) which will apply for 5 years after the Occupation Certificate for the Building adjoining the relevant Contribution Land.

1.29 Intellectual Property

The Council grants to the Land Owner and Contractor a licence to use the intellectual property rights which the Council has for the Essential Infrastructure DA Plans.

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Schedule 5 - Contribution Land Procedures

1.1 Approvals

No less than 10 Business Days before the timing identified in Column 2 of Table 2 of the Contributions Schedule, the Land Owner must at its Cost and risk, except in respect of the Essential Infrastructure DA:

(a) prepare all Applications and obtain all Approvals necessary to:

(i) Subdivide the Land by one or more plans of subdivision to separate the Contribution Land from the Land (**Relevant Subdivision**); and

(ii) create such easements, restrictions on use and covenants as agreed by the Council and the Land Owner (both acting reasonably) for those parts of the Land owned by the Land Owner, as being necessary or usual in the circumstances to permit and promote public access to the Contribution Land, which easements, restrictions on use or covenants must be registered at or about the same time as the relevant plan of subdivision (**Relevant Easements**);

(b) comply with all conditions of all such Approvals; and

(c) procure Land Registry Services NSW to register the relevant documentation and plans to create the Relevant Subdivision and register the Relevant Easements consistent with all such Approvals.

1.2 Land Owner undertakings regarding Contribution Land

In accordance with the timing identified in Column 2 of Table 2 of Schedule 3, the Land Owner must (at its Cost and risk):

(a) do all acts and execute and deliver all documents (in form and content reasonably satisfactory to the Council) to the Council (or such other person as the Council may reasonably direct) give effect to the transfer of Contribution Land to the Council for a consideration of $1;

(b) deliver to the Council:

(iii) any consents and other documentation in registrable form required for the transfer (and registration) of the Contribution Land;

(i) any permits in connection with the Contribution Land and any consents and other documentation in a registrable form necessary, or otherwise required by the Council, for the transfer (and registration) of those permits; and

(c) take any other necessary action (other than paying stamp duty) to give effect to the transfer of the title of the Contribution Land to the Council (or such other person as the Council may direct) free of all Encumbrances (other than a Permitted Encumbrance) and affectations (including any charge or liability for rates, taxes and charges) except any caveat lodged over the Contribution Land by the Council in accordance with clause 5.

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1.3 Compulsory Acquisition

(a) If the Land Owner does not transfer or grant to the Council the *"interests"* in land (as defined in the *Land Acquisition (Just Terms Compensation) Act* 1991) as required by this Deed (including the transfer of the Contribution Land to Council), the Land Owner consents to the Council compulsorily acquiring the whole or any part of that relevant interest in accordance with the *Land Acquisition (Just Terms Compensation) Act* 1991 (NSW), for the amount of $1.00.

(b) The Land Owner and the Council agree that:

(i) this paragraph 1.3 of this Schedule 5 is an agreement between them for the purposes of section 30 of the *Land Acquisition (Just Terms Compensation) Act* 1991 (NSW); and

(ii) in this paragraph 1.3 of this Schedule 5 they have agreed on all relevant matters concerning the compulsory acquisition and the compensation to be paid for the acquisition.

(c) Except as otherwise agreed between the Land Owner and the Council, the Land Owner must ensure that the Contribution Land is free of all Encumbrances (other than Permitted Encumbrances) and affectations (including any charge or liability for rates, taxes and charges), on the date that the Land Owner is liable to transfer the Contribution Land to the Council in accordance with paragraph 1.2 of this Schedule 5.

(d) The Land Owner indemnifies and keeps indemnified the Council against all claims made against the Council under the *Land Acquisition (Just Terms Compensation) Act 1991 (NSW)* as a result of any acquisition by the Council of the whole or any part of the relevant interest in land under paragraph 1.3 of this Schedule 5.

(e) The Land Owner must pay the Council, promptly on demand, an amount equivalent to all reasonable Costs and reasonable Legal Costs incurred by the Council acquiring the whole or any part of the relevant interest in land as contemplated by this Schedule 5.

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Schedule 6 - Notification and rectification of breach

1. Notice of breach

1.1 Notice of Breach by the Council

(a) If the Council considers that the Land Owner or the Contractor has defaulted on the performance of any of their respective obligations under this Deed, then the Council may give written notice to the defaulting party (**Defaulting Party**) (with a copy of the notice to the other party (**Non-Defaulting Party**)) (**Breach Notice**) which:

(i) identifies the nature of the breach; and

(ii) specifies that the breach must be rectified within at least 20 Business Days (except in the case of an emergency or where there is an issue of public safety where less time may be specified) of the Council's notice.

(b) Nothing in this Deed obliges the Council to issue a Breach Notice under this paragraph 1.1 of Schedule 6 but, until such time as the Council notifies the Defaulting Party of the breach:

(i) the Council may not rely on the breach to withhold its consent or exercise other rights under this Deed arising from or in connection with the breach; and

(ii) the Council may not assert that the Contractor or Land Owner has not complied with a pre-condition under the Deed so as to prevent the issue of a Subdivision Certificate, Occupation Certificate or Construction Certificate under the EP & A Act.

1.2 Land Owner's or Contractor's Response to Notice

(a) Promptly upon receipt of a Breach Notice under paragraph 1.1 of this Schedule 6, the Defaulting Party must either:

(i) rectify the breach identified in the Breach Notice within the time period specified in that notice; or

(ii) notify the Council in writing that it does not agree that the breach identified in the Breach Notice has occurred, and refer the matter for dispute resolution in accordance with clause 12 and Schedule 7.

(b) In the absence of a manifest error on the face of the notice, nothing in paragraph 1.2(a)(ii) of this Schedule 6 will constrain or limit the Council's rights of recourse under this Deed.

1.3 Rights of the Council after Giving Notice

(a) If:

(i) the Defaulting Party does not take either of the actions outlined in paragraph 1.2(a) of this Schedule 6; or

(ii) any dispute notified by the Land Owner or the Contractor is resolved in favour of the Council,

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then the Council may take any or all of the actions available to it under this Deed including:

A. taking any action under paragraph 2.1 of this Schedule 6;

B. calling on the Bond under Schedule 10;

C. if the default specified in the Breach Notice relates to:

1) a failure by the Contractor to pay the Contribution Amount in accordance with this Deed; or

2) a failure by the Contractor to provide a Bond in accordance with this Deed,

then the Council may issue a notice to the Land Owner which:

3) identifies the nature of the breach; and

4) specifies that the breach must be rectified by the Land Owner within at least 20 Business Days (except in the case of an emergency or where there is an issue of public safety where less time may be specified) of the Council's notice,

and the provisions of paragraphs 1.2 and 1.3 of this Schedule 6 will apply in respect of that notice (with the necessary changes having been made) and if the Land Owner does not take either of the actions outlined in paragraph 1.2(a) of this Schedule 6 then the Council may have recourse against the Land Owner in relation to the breach.

(b) The rights of the Council under this Deed, and any action taken by it as referred to in paragraph 1.3(a) of this Schedule 6 or otherwise, are without derogation from the other rights and remedies available to the Council under this Deed, at Law and in equity in relation to any default of the Land Owner or the Contractor.

2. Council may rectify breach

2.1 Council may perform Contractor's and Land Owner's obligations

(a) Before exercising its rights under paragraph 2.1 of this Schedule 6, the Council will give at least 20 Business Days' (except in the case of an emergency or where there is an issue of public safety where less time may be specified) written notice to the Land Owner and the Contractor of its intention to exercise its rights under paragraph 2.1 of this Schedule 6.

(b) The Council may (but is not obliged to):

(i) perform the Contractor's or the Land Owner's obligations (as appropriate) where the Contractor or Land Owner (as appropriate) fails to:

A. rectify the breach identified in the notice referred to in paragraph 1.1 of this Schedule 6 within the time period specified in that notice; or

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B. notify the Council in writing that it does not agree that the breach identified in the notice referred to in paragraph 1.1 of this Schedule 6 and refer the matter for dispute resolution in accordance with clause 12 and Schedule 7;

(ii) rectify any breach of this Deed;

(iii) carry out other works that are necessary to be carried out; and

(iv) otherwise do anything which the Land Owner or the Contractor (as appropriate) should have done under this Deed.

(c) Without limiting paragraph 2.1 of this Schedule 6, the Council may enter onto the Land and do whatever is necessary to remedy the breach, in the absolute discretion of the Council, subject to compliance with the reasonable directions of the Land Owner and the Contractor relating to work, health and safety and compliance with all Laws.

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Schedule 7 - Dispute Resolution

1. Dispute

This Schedule 7 applies to:

(a) a dispute in connection with a technical matter which is not a legal matter arising from or in connection with this Deed or its subject matter and which is within the expertise of an expert appointed under paragraph 5 and which the Parties agree is a matter that should be determined by an expert (Technical Dispute); and

(b) any dispute which is not a Technical Dispute (Non-Technical Dispute),

(collectively, a **Dispute**).

2. Notice of Dispute

(a) If a Dispute between any of the Parties arises, then any Party may give to the other Parties a notice of dispute in writing adequately identifying and providing details of the Dispute (Dispute Notice).

(b) The Parties must continue to perform their respective obligations under this Deed if there is a Dispute but will not be required to complete the matter the subject of the Dispute or on which any Dispute has a bearing, unless each Party indemnifies the other Parties against Cost, damages and all losses suffered in completing the disputed matter if the Dispute is not resolved in favour of the indemnifying Party.

3. Further steps required before proceedings

(a) Except as provided in paragraph 3(b), any Dispute between Parties arising in connection with this Deed or its subject matter must as a condition precedent to the commencement of litigation first be the subject of mediation between a person appointed from time to time by each (under written notice to the other Parties) to represent that Party and:

(i) If the Parties to the dispute cannot agree on a mediator within 10 Business Days of receipt by the relevant Part of the Dispute Notice, any such Party may request the President of the New South Wales Law Society to appoint a mediator;

(ii) Each Party must use its best efforts to resolve the dispute by a mediation procedure to be agreed upon by each Party to the dispute; and

(iii) If the mediation does not result in the resolution of the dispute within 30 Business Days of the Dispute Notice, then any Party to the Dispute is entitled to commence litigation in respect of that dispute

(b) If the Dispute the subject of the Dispute Notice is:

(i) Technical Dispute the value of which is more than $1 million (excluding prospective Legal Costs); or

(ii) a Non-Technical Dispute,

the Dispute is to be referred to the CEOs.

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(c) If the CEOs are unable in good faith to settle the Dispute within 15 Business Days after the Dispute Notice (or such longer period as the CEOs may unanimously agree), then, unless the CEOs unanimously agree in writing to the contrary (including an agreement that this Schedule 7 will apply as if the Dispute were a Technical Dispute) any one Party may take whatever course of action it deems appropriate for the purpose of resolving the Dispute and the provisions of this Schedule 7 will not apply.

4. Disputes for expert determination

Subject to paragraph 3(b), if a Technical Dispute has not been fully resolved within 15 Business Days of the Dispute Notice (or such other date as the Parties may agree), any one Party to the Dispute may, with the prior written consent notice of each to the other Parties, to the Dispute refer the matter to an expert agreed between the Parties for determination in accordance with paragraph 5 with such expert to act in accordance with paragraph 7.

5. Choice of expert

(a) A Technical Dispute to be referred to an expert in accordance with paragraph 4 must be determined by an independent expert in the relevant field:

(i) agreed between and appointed jointly by the Parties based on the proposed list of experts in clause 5(c); or

(ii) in the absence of agreement within 5 Business Days of referral of the matter to expert determination under paragraph 4, appointed by the President or other senior officer for the time being of the body administering the relevant field.

(b) If the Parties cannot agree as to the relevant field, any one Party may to the Dispute refer the matter to the President of the New South Wales Bar Association (or the President's nominee) whose decision as to the relevant field is final and binding on the Parties.

(c) The institutes or associations from which the expert may be appointed include, without limitation:

(i) if the dispute relates to engineering:

the Institution of Engineers Australia; or

(ii) if the dispute relates to insurance:

the Australian and New Zealand Institute of Insurance and Finance, New South Wales Branch; or

(iii) if the dispute relates to the valuation of works to be carried out:

the Australian Institute of Quantity Surveyors, New South Wales Division; or

(iv) if the dispute relates to Contamination or Remediation:

the President of the Australian Contaminated Land Consultants Association.

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6. Requirements for expert

The expert appointed to determine a Technical Dispute:

(a) must have a technical understanding of the issues in contest;

(b) must not have a significantly greater understanding of one Party's business or operations which might allow the other side to construe this greater understanding as a bias or a conflict of interest; and

(c) must inform the Parties before being appointed of the extent of the expert's understanding of each Party's business or operations and, if that information indicates a possible bias, then that expert must not be appointed except with the written approval of the Parties.

The Parties must enter into an agreement with the expert appointed under this Schedule 7 setting out the terms of the expert's determination and the fees and expenses payable to the expert.

7. Directions to expert

In reaching a determination in respect of a Technical Dispute under paragraph 4, the independent expert must give effect to the intent of the Parties entering into this Deed.

8. Expert not arbitrator

The expert must:

(a) act as an expert and not as an arbitrator; and

(b) proceed in any manner as the expert thinks fit but must observe the rules of natural justice but not the rules of evidence, not accept oral submissions unless both Parties are present and on receipt of written submissions from one Party ensure that a copy of such submission is given promptly to the other Party to the Dispute;

(c) take into consideration all documents, information and other material which the Parties give the expert which the expert in its absolute discretion considers relevant to the determination of the Technical Dispute;

(d) not be expected or required to obtain or refer to any other documents, information or material (but may do so if the expert so wishes);

(e) issue a draft certificate stating the expert's intended determination giving each Party to the Dispute 15 Business Days to make further submissions;

(f) issue a final certificate stating the expert's determination; and

(g) act with expedition with a view to issuing the final certificate as soon as practicable.

9. Compliance with directions

The Parties must comply with all directions given by the expert in relation to the resolution of the Technical Dispute and must within a time period specified by the expert, give the expert:

(a) a short statement of facts;

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(b) a description of the Technical Dispute; and

(c) any other documents, records or information the expert requests.

10. Expert may commission reports

The expert may commission the expert's own advisers or consultants (including lawyers, accountants, bankers, engineers, surveyors or other technical consultants) to provide information to assist the expert in making a determination. The Parties must indemnify the expert for the cost of those advisers or consultants.

11. Expert may convene meetings

(a) The expert will hold a meeting with all the Parties present to discuss the Technical Dispute. The meeting must be conducted in a manner which the expert considers appropriate. The meeting may be adjourned to, and resumed at, a later time in the expert's discretion.

(b) The Parties agree that a meeting under this paragraph is not a hearing and is not an arbitration.

12. Final determination of expert

(a) The Parties agree that the final determination by an expert will be final and binding upon them.

(b) The expert or mediator will not be liable in respect of the expert determination or mediation, except in the case of fraud or misfeasance by the expert or mediator.

(c) The Parties agree to release and indemnify the expert from and against all claims, except in the case of fraud or misfeasance by the expert, which may be made against the expert by any person in respect of the expert's appointment to determine the Technical Dispute.

13. Other courses of action

If the Technical Dispute has not been fully resolved 45 Business Days of the Dispute Notice (or such other date as the Parties may agree) or the expert determination required or agreed under paragraph 3 has not resulted in resolution of the Technical Dispute, any one Party to the Dispute may take whatever course of action it deems appropriate for the purpose of resolving the Technical Dispute.

14. Confidentiality of information

The Parties agree, and must procure that, the mediator and expert agrees as a condition of his or her appointment:

(a) subject to paragraph 14(b) below, to keep confidential all documents, information and other material, disclosed to them during or in relation to the expert determination or mediation; and

(b) not to disclose any confidential documents, information and other material except:

(i) to a Party to the Dispute or adviser who has signed a confidentiality undertaking to the same effect as this paragraph 14; or

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(ii) if required by Law or the ASX Listing Rules to do so; or

(c) not to use confidential documents, information or other material disclosed to them during or in relation to the expert determination for a purpose other than the expert determination or mediation.

The Parties must keep confidential and must not disclose or rely upon or make the subject of a subpoena to give evidence or produce documents in any arbitral, judicial or other proceedings:

(d) views expressed or proposals or suggestions made by a Party to the Dispute or the expert during the expert determination or mediation relating to a possible settlement of the Technical Dispute; and

(e) admissions or concessions made by Party to the Dispute during the expert determination or mediation in relation to the Technical Dispute; and

(f) information, documents or other material concerning the Technical Dispute which are disclosed by a Party to the Dispute during the expert determination or mediation unless such information, documents or facts will have been otherwise discoverable in judicial or arbitral proceedings.

15. Costs

The Costs of appointing a mediator or expert under this Schedule 7 will be borne equally by the Parties. Each Party will be responsible for its own Legal Costs.

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Schedule 8 - Registration of Deed

1.1 Registration

(a) The Land Owner agrees to procure the registration of this Planning Agreement in the relevant folio of the Register for the Land in accordance with section 7.6 of the EP&A Act and this Schedule 8.

(b) The Land Owner, at its Cost and risk, as soon as reasonably practicable (but in any event no later than 20 Business Days after the execution of this Deed by the Council) take all practical steps and otherwise do anything that the Council reasonably requires:

(i) to procure:

A. the consent of each person who:

1) has an estate or interest in the Land registered under the Real Property Act; or

2) is seized or possessed of an estate or interest in the Land; and

B. the execution of any documents; and

C. the production of the relevant certificates of title,

to enable the registration of this Planning Agreement under the Real Property Act by the Registrar-General in the relevant folio of the Register for the Land in accordance with section 7.6 of the EP&A Act; and

(ii) to procure registration of this Planning Agreement in the relevant folio of the Register for the Land in accordance with section 7.6 of the EP&A Act.

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Schedule 9 - Release and Discharge Terms

(a) Once the Council is satisfied that the Contractor and Land Owner has fully complied with all of its obligations under this Deed, at the Contractor's or Land Owner's request (and Cost), the Council agrees to:

(i) provide a full release and discharge of this Deed with respect to the whole of the Land; and

(ii) sign such documentation as is necessary to withdraw any caveat lodged by the Council in relation to the Land pursuant to clause 5; and

(iii) sign such documentation as is necessary to release this Deed registered on the folios of the Register of the Land.

(b) Despite paragraph (a) above of this Schedule 9, from time to time, the Land Owner or Contractor may request the Council to provide a release and discharge of the Planning Agreement to the extent the Planning Agreement affects any Development Site where:

(i) the Land Owner and Contractor have satisfied their obligations under this Planning Agreement (including paying any relevant Contribution Amount) in respect of that Development Site or provided security to the Council's satisfaction (in its sole and unfettered discretion) to secure performance of any outstanding obligations under this Planning Agreement in respect of that Development Site;

(ii) to the extent the Defects Liability Period for any Contribution Works Portion the subject of that Development Site has not expired, the Contractor has provided the Council with a Bond in accordance with Schedule 10; and

(iii) the Land Owner and the Contractor are not otherwise in Material Default of any of their obligations under this Planning Agreement (as determined by the Council (acting reasonably)) in respect of that Development Site, at the time of the Land Owner's or Contractor's request, unless the Council waives the default.

(c) If the conditions in paragraph (b) of Schedule 9 are satisfied, the Council will provide a release and discharge of the Planning Agreement in respect of the Development Site only, which will be registered in priority to the plan of strata subdivision of that Development Site.

(d) Following registration of this Planning Agreement in the relevant folio of the Register, the Contractor or the Land Owner may request the Council to remove any caveat registered on the Land under clause 5 and the Council must do all things reasonably necessary to withdraw the caveat as soon as possible after such request.

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Schedule 10 - Bonds

1. Bonds Required

1.1 Contractor to provide Bond

(a) The Parties acknowledge that the Contractor has provided the First Remediation Bond under the Original Stage 1-5 Planning Agreement.

(b) The Contractor must provide the Contribution GI Works Bond for each Building to the Council for the Contribution GI Works Bond Amount prior to the issue of the first Construction Certificate for the Building in which the Contribution GI Works are to be constructed.

1.2 Reduction of the Bonds for the Bond Works

(a) Subject to paragraph 1.2(b) of this Schedule 10, the Contractor may by written notice to the Council, upon Practical Completion of any part of the Bond Works, request a reduction of the Remediation Bond Amount having regard to the works completed at the time of the request. The Council will act reasonably in the consideration of whether a partial release or exchange (as the case may be) leaves appropriate or adequate security for the balance of the Bond Works.

(b) If the Contractor provides a Quantity Surveyor's assessment of the Bond Works and the Construction Cost with its request under paragraph (a) and Council (acting reasonably) is satisfied that the relevant Bond Works have achieved Practical Completion, then the Council must release to the Contractor a reasonable portion of the Bond having regard to the Construction Cost of the relevant completed Bond Works.

(c) The Contractor acknowledges and agrees that, to secure the Contractor's obligations under paragraph 1.25 of Schedule 4 during the Defects Liability Period for each component of the Bond Works the value of the Remediation Bond must not be reduced to an amount which is less than 10 per cent of the Remediation Bond Amount.

(d) For the avoidance of doubt, the Contribution GI Works Bond will not reduce in accordance with this clause 1.2 of Schedule 10. The Contribution GI Works Bond will be returned to the Contractor on expiry of the Defects Liability Period for that component of the Contribution GI Works to which the Contribution GI Works Bond relates.

1.3 Adjustment of Bond Amounts

(a) On each Adjustment Date the Bond Amounts are to be adjusted to the Revised Bond Amount as determined in accordance with the following formula:

$$RBA = \frac{BA \times A}{B}$$

where:

RBA is the Revised Bond Amount applicable from the relevant Adjustment Date;

BA is the Bond Amount that is current on the relevant Adjustment Date;

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A is the CPI published immediately before the relevant Adjustment Date (and in the case of the first adjustment, 30 June 2012);

B is the CPI published immediately before the date of this Deed and, in the case of subsequent adjustments, the immediately preceding Adjustment Date.

No increase or other change will be made to the Revised Bond Amount where B is greater than A or where the Revised Bond Amount is less than 10 per cent of the Bond Amounts.

(b) The Council must give the Contractor written notice of the Revised Bond Amounts to apply from the relevant Adjustment Date.

(c) The Contractor must give the Council replacement or further Bonds so that the Council holds Bonds for an amount equal to the Revised Bond Amounts no later than 15 Business Days after receipt of a notice given under paragraph 1.3(b) of this Schedule 10.

2. Face value of Bond

If a Bond is required to be provided by the Contractor to the Council under this Deed, then the Contractor must procure and give to the Council a Bond with a face value of an amount equivalent the amount and at the time specified in this Deed.

3. Expiry of Bonds

If, despite the requirements of this Deed, any Bond provided by the Contractor under this Deed or under the Original Stage 1-5 Planning Agreement in respect of the Land is expressed as expiring on a certain date, the Contractor must provide the Council with a replacement Bond in respect of the Bond Works under this Deed 20 Business Days prior to the expiry of any Bond subject to paragraph 4 of this Schedule 10.

4. Failure to replace expired Bond

If the Contractor fails to provide the Council with a replacement Bond in accordance with paragraph 3 of this Schedule 10, the Council may call on the full amount of such Bond after giving 10 Business Days prior written notice to the Contractor.

5. No limitation of obligations

The provision of the Bond does not:

(a) relieve the Contractor from any of its obligations under any other provision of this Deed; or

(b) limit the right of the Council to recover from the Contractor in full all money payable to the Council under this Deed, including without limitation, interest on any such amounts or damages or other losses incurred by the Council.

6. Cash deposit

(a) If the Council makes demand under any Bond pursuant to paragraph 4 of this Schedule 10, the Council must hold the full amount so paid to the Council as a cash deposit (**Cash Deposit**) in a separate account opened with any body corporate that is an ADI (authorised deposit-taking institution) for the purposes of the Banking

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Act, 1959 in the name of the Council and with beneficial ownership vesting at all times in the Council (**Cash Deposit Account**). The Cash Deposit will operate to secure the same obligations under this Deed that the relevant Bond secured.

(b) As beneficial owner of the Cash Deposit, the Council may, at any time and without notice to the Contractor, withdraw money (including accrued interest) from the Cash Deposit Account and retain that money absolutely to satisfy or reimburse the Council for any liability, loss, cost, charge or expense incurred by the Council because of failure by the Contractor to comply with those of the Contractor's obligations under this Deed that the relevant Bond secured.

(c) All Costs, charges, duties and taxes payable in connection with the Cash Deposit Account or interest accruing on moneys credited to the Cash Deposit Account may be satisfied by the Council withdrawing money from the Cash Deposit Account and applying the money for that purpose.

(d) If no moneys are, or may become, payable to the Council under this Deed in connection with the obligations under this Deed secured by the relevant Bond and the Contractor has satisfied all of its obligations under this Deed which were secured by the relevant Bond, the Council must pay the balance of the Cash Deposit Account, less all Costs, charges, duties and taxes payable in connection with such payment, to the Contractor.

(e) For the avoidance of doubt, the Contractor has no right to require the Council to release the Cash Deposit until the Council is reasonably satisfied that no moneys are, or may become, payable to the Council under this Deed in relation to obligations secured by the relevant Bond.

7. Release of Cash Deposit

The Council must release the Cash Deposit to the Contractor if the Contractor provides the Council with a replacement Bond complying with the requirements of paragraph 3 of this Schedule 10.

8. Claims under Bond

(a) The Contractor agrees that the Council may call upon a Bond provided by it (in full or in part) in the event that:

(i) the Contractor breaches its obligation to carry out and complete any of the Bond Works in accordance with this Deed; and

(ii) a notice has been issued by Council requiring the Contractor to remedy the breach in accordance with the requirements of paragraph 1 of Schedule 6, and the breach remains unremedied following the expiry of the rectification period specified in that notice,

and retain and use such monies to compensate the Council for the Contractor's breach of those obligations.

(b) The Council must take reasonable steps to mitigate its losses.

(c) The Council must not make a claim under a Bond in bad faith or unconscionably.

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9. Landcom not the Land Owner

(a) This paragraph 9 of Schedule 10 only applies if:

(iii) Landcom has sold and transferred any part of the Land (**Sold Land**); or

(iv) Landcom is no longer a wholly owned government entity.

(b) The Contractor must provide a Bond for the amount of the total unpaid Contribution Amount to secure the obligations to pay the DRS component of the Contribution Amounts (**Contribution Amounts Bond**) payable:

(i) in respect of the Sold Land, where Landcom has sold and transferred the Sold Land; or

(ii) the whole of the Land, if Landcom is no longer a wholly owned government entity,

and the provisions of Schedule 10 will apply to that Bond.

(c) The Parties agree the amount of the Contribution Amounts Bond will reduce progressively by an amount equivalent to each Contribution Amount after that Contribution Amount has been paid to the Council.

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Schedule 11 - Assignment and Dealing

1.1 Contractor's and Land Owner's proposed assignment of rights

(a) Unless the matters specified in paragraph 1.1(b) of this Schedule 11 are satisfied and subject to paragraph 1.1(c) of this Schedule 11, the Contractor and the Land Owner are not to assign or novate to any person the Contractor's or the Land Owner's rights or obligations under this Deed.

(b) The Contractor or the Land Owner must not assign or novate to any person its rights or obligations under this Deed and the Land Owner must not transfer the whole or any part of the Land or its interest in the Land unless the prior written consent of Council is obtained. The Council must not unreasonably withhold its consent in circumstances where the following matters have been satisfied:

(i) the Contractor or the Land Owner (as the case may be) has, at no cost to the Council, first procured the execution by the person to whom the Contractor's or Land Owner's rights or obligations under this Deed are to be assigned or novated (**incoming party**), of a deed poll in favour of the Council in the form of Schedule 15, completed in a manner satisfactory to the Council. Such deed includes covenants that the incoming party:

A. will perform the obligations of the Contractor or the Land Owner (as the case may be) under this Deed; and

B. is bound by the terms and conditions of this Deed (relevant to the Contractor or the Land Owner (as the case may be) as if the incoming party had executed the Deed;

(ii) the Contractor or the Land Owner (as the case may be) demonstrates to the reasonable satisfaction of the Council that:

A. the incoming party is solvent;

B. the incoming party or related entity has experience in or can demonstrate the capacity to carry out staged medium or high density developments with a Gross Floor Area of at least 50,000 m² (or in the case of any transfer, assignment or novation with respect of a portion of the Land, then the proposed gross floor area of that portion, whichever is lesser); and

C. the incoming party provides to the Council a letter undertaking that any development of the Land will meet the Green Infrastructure requirements of this Deed; and

(iii) the Contractor and the Land Owner are not in Material Breach of this Deed with respect to the relevant part of the Land in case of an assignment or novation of the Contractor or Land Owner's interest in part of the Land only, unless the relevant breach is waived by the Council.

(c) Paragraph 1.1 of Schedule 11 does not apply to the Land Owner taking on the Contractor's rights and obligations under this Deed pursuant to clause 20.

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1.2 Right of Land Owner to sell Land

(a) The Land Owner must not sell or transfer the whole or any part of the Land (and must procure that the whole or any part of the Land is not sold or transferred) prior to this Deed being released and discharged from title to that Land (or any part of it) unless before any such sale, transfer or disposal of any such part of the Land or such part of their interest in the Land to another person (**Transferee**) the Land Owner obtains Council's prior written consent. The Council must not unreasonably withhold its consent in circumstances where:

(i) the requirements specified in paragraph 1.1(b) of this Schedule 11 are satisfied, with the exception of paragraph 1.1(b)(ii)(B) of this Schedule 11 in circumstances where the Transferee will not be carrying out the Development; and

(ii) the Council is satisfied that the Transferee has sufficient financial standing to meet the obligations under the Planning Agreement relevant to the Land or part of the Land being transferred, including to provide the relevant Bonds (if any).

(b) This paragraph 1.2 does not apply to:

(i) the transfer of a single lot in a strata plan (irrespective of whether the strata plan has been registered);

(ii) the off-the-plan sale of a stratum lot (irrespective of whether the plan of subdivision has been registered) for retail or commercial purposes which will not complete until after the Completion Date;

(iii) the transfer of a lot to a utility provider which is required for the purposes of utilities or services; and

(iv) any other lot agreed to by the Council.

1.3 Right to grant mortgage or charge

The Contractor or the Land Owner may grant a mortgage over any part of the Land or other charge or security interest in connection with its rights and interest in such Land without the Council's prior written consent provided that the Parties and the incoming financier enter into a deed on the terms reasonably required by the Council including that the mortgagee or charge of the Contractor or the Land Owner's right, title and interest in this Deed and/or any part of the Land, covenants with the Council to comply with the Contractor or the Land Owner's obligations under this Deed if, and for so long as, the mortgagee goes into possession of any part of the Land, including this Schedule 11 if the mortgagee sells the Land or any part or disposes of the Contractor's interest in the Development.

1.4 Council's Costs

The Contractor must pay to the Council (or reimburse the Council on demand) for all the reasonable Costs and reasonable Legal Costs incurred by the Council in connection with any assignment or dealing proposed under paragraphs 1.1 or 1.2 of this Schedule 11.

1.5 Council's assignment of rights

Council may assign its rights under this Deed to any successor in title.

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Schedule 12 - Access Rights

1.1 Land Owner warranty

The Land Owner warrants that it has granted (and will at all times grant) the Contractor such access to the Land and other rights as is necessary to enable the Contractor to perform its obligations under this Deed (including undertaking the Contribution WIK (and all ancillary and related works)).

1.2 Council to grant Contractor access

(a) The Parties acknowledge that the Council has required the transfer of the Contribution Land at an early stage in the program of the Development. As a consequence of the early transfer, the Contractor will from time to time require access to and other rights over the Contribution Land and other land owned by the Council (in the vicinity of the Land) for the purpose of completing the Development and any of the Contribution Works. This clause 1.2 sets out the basis on which access and other rights will be granted to the Contractor (including any of its employees, officers, contractors, subcontractors and agents).

(b) Subject to paragraph 1.2(c) of this Schedule 12 and at the Contractor's request, the Council will allow the Contractor (including any of its employees, officers, contractors, subcontractors and agents) access to the Contribution Land (after it is transferred to the Council) and other land owned by Council (within the vicinity of the Land) for the purpose of carrying out works associated with the:

(i) Development;

(ii) any of the Contribution Works; or

(iii) as otherwise agreed.

(c) If requested, the Council agrees to grant such licences or other rights (as are reasonably necessary) over the Contribution Land or other land owned by Council (in the vicinity of the Land) to enable the Contractor (including any of its employees, officers, contractors, subcontractors and agents) to carry out the Development or to perform the Contractor's obligations under this Deed.

(d) The Parties acknowledge that such licence or rights will be on such terms as the Council reasonably requires including provisions requiring the Land Owner, when exercising such rights in respect of the Contribution Land or any other land owned by Council (in the vicinity of the Land), to:

(i) limit the duration of the rights to a maximum of 2 years from the date of issue of the Construction Certificate relating respectively to each of the Buildings shown in the Access Plan or such other time as is agreed in writing between the Parties;

(ii) cause as little damage as reasonably possible;

(iii) where any damage is caused, restore the land and any improvements on the land to their condition as at commencement of occupation by the Contractor (including its employees, officers, subcontractors and agents);

(iv) minimise disruption to the use of the land adjoining any licensed areas owned by Council;

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(v) comply with the Council's work hours, lighting, insurance, occupational health and safety requirements;

(vi) indemnify Council on terms reasonably required by the Council in connection with the Contractor's use of the licensed area or the Contractor's default.

(e) Any request for access by the Contractor to the Council must be in writing and must be made at least 5 Business Days in advance of the proposed date of access

and the Contractor and the Council will enter into legally binding documentation which confirms these arrangements prior to access being granted to the Contractor.

(f) The Contractor must ensure that its contractors and its authorised representatives do not breach this clause 1.2 of this Schedule 12.

(g) Notwithstanding any other provision of this Deed, it is the intention of the Parties that the Land Owner and the Contractor will not be liable for fees or charges in respect of the Development on the Land which (but for the early transfer of the Contribution Land) would not have been payable if the Land Owner were the registered proprietor of the Contribution Land throughout the Development (other than statutory fees and charges). To that end, the Council agrees that it will not impose any special charge, rental or licence fee for the Contractor's access or other rights granted under this clause 1.2 of this Schedule 12.

(h) The Council must, if access is granted to the Contractor and the Land Owner under this paragraph 1.2:

(i) comply with all reasonable directions of the Contractor or Land Owner's site co-ordinator;

(ii) all relevant Laws including the *Work Health and Safety Act 2011;* and

(iii) any site awards or conditions as applicable;

1.3 Land Owner and Contractor to grant Council access

(a) Subject to paragraph (b) and (c), the Land Owner and the Contractor grants to the Council and its authorised representatives a non-exclusive licence to use and access the Contribution Lands for construction purposes, including to survey the Contribution Lands and construct infrastructure and install essential services as shown on the Access Plan without payment of rent, licence fee or other occupation payment by the Council.

(b) This licence immediately terminates in respect of any part of the Contribution Lands which the Land Owner or Contractor no longer own or control.

(c) The Council:

(v) when exercising its rights under the licence granted under this clause, must:

A. cause as little damage as reasonably possible;

B. where any damage is caused, restore the Land and any improvements on the Land to their condition as at

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commencement of occupation by the Council and Council's contractors;

C. minimise disruption to the use of the Land, including use of the Land by the Land Owner, the Contractor (including the carrying out by the Contractor of the Contribution GI Works and the Development) and anyone else lawfully on the Land;

D. comply with the Contractor's work hours, lighting, insurance, work health and safety requirements (to the extent that these requirements do not infringe any Laws, do not have a material impact on the Development Program and are not inconsistent with any Approval (including the Development Consent) and the reasonable requirements of the Land Owner and Contractor under this Deed);

E. comply with all reasonable directions of the Contractor or Land Owner's site co-ordinator;

F. co-operate fully with other contractors working on the Land and not interfere with the other contractors to execute their work;

G. comply with all relevant Laws including the *Work Health and Safety Act* 2011 and *Work Health and Safety Regulations* 2017; and

H. comply with any site awards or conditions as applicable.

(vi) indemnifies the Contractor and the Land Owner from and against damage, loss, injury and death caused by the negligence, default or unlawful acts of Council or any of Council's contractors while accessing the Contribution Lands under this licence except to the extent caused or contributed to by a negligent or wrongful act or omission of the Contractor, the Land Owner or their officers, agents, employees, licensees or contractors contributed to the liability.

(a) Any request for access by Council to the Land Owner and Contractor must be in writing and must be made at least 5 Business Days prior to access being granted to Council.

(b) Council must ensure its contractors do not breach this clause 1.3 of Schedule 12.

(c) The Land Owner and the Contractor may, acting reasonably, instruct Council to remove its contractor, equipment and materials from the Land and may exclude that contractor from the Land in the case of breach of this clause 1.3 of Schedule 12.

(d) Council acknowledges that the Land Owner and the Contractor are not responsible for supervising or co-ordinating the Council's works under this licence nor has the Land Owner or the Contractor undertaken any obligation or assumed any duty of care in respect of those works.

(d) Council must:

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(i) effect and maintain, or ensure that its contractors effect and maintain, in connection with the Council's works under this licence, contract works insurance, public liability insurance and workers compensation insurance as required by Law; and

(ii) provide to the Land Owner and Contractor, upon request, certificates of currency in respect of those insurances.

(a) To the extent that Council's contractors are not covered by the insurances of Council, Council must procure that Council's contractors comply with paragraph 1.3(h) of this Schedule 12.

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Schedule 13 - General Provisions

1.1 Approvals and Consent

Except as otherwise set out in this Deed, and subject to any statutory obligations, a Party will not unreasonably withhold an approval or consent to be given under this Deed but may give its approval or consent subject to any conditions reasonably determined by that Party.

1.2 Costs

(a) Unless otherwise specified in this Deed, all Costs and Legal Costs relating to this Deed are to be borne by the Parties in the proportions specified in Schedule 14 and are payable on demand.

(b) Without limiting paragraph 1.2(a) of this Schedule 13, the Contractor or the Land Owner (as applicable) agrees to pay or reimburse the Council on demand for:

(i) Costs and Legal Costs of the Council in connection with:

A. exercising, enforcing or preserving, , enforce or preserve, rights under this Deed, including in connection with the Contractor or the Landowner's default but only where the Council is successful in exercising, enforcing or preserving its rights;

B. any waiver, variation, release or discharge of this Deed requested by the Contractor or the Landowner; and

(ii) Taxes and fees (including, without limitation, registration fees) and fines and penalties in respect of fees which may be payable or determined to be payable in connection with this Deed or a payment or receipt or any transaction contemplated by this Deed.

(c) Without limiting paragraph 1.2(a) of this Schedule 13, the Council agrees to pay or reimburse the Contractor or the Land Owner (as applicable) on demand for:

(i) Costs and Legal Costs of the Contractor or the Land Owner (as applicable) in connection with:

A. exercising, enforcing or preserving, or attempting to exercise, enforce or preserve, rights under this Deed, including in connection with the Council's default but only where the Contractor or the Land Owner (as applicable) is successful in exercising, enforcing or preserving its rights;

B. any waiver, variation, release or discharge of this Deed requested by the Council.

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1.3 Effect of terms and conditions in Schedules and Annexures

The Parties agree to comply with the terms and conditions contained in the Schedules and Annexures as if those terms and conditions where expressly set out in full in the operative parts of this Deed.

1.4 Entire agreement

To the extent permitted by law, in relation to its subject matter only, this Deed:

(a) embodies the entire understanding of the parties, and constitutes the entire terms agreed by the Parties; and

(b) supersedes any prior written or other agreement of the Parties.

1.5 Further acts

Each Party must promptly execute all documents and do all things that another party from time to time reasonably requests to affect, perfect or complete this Deed and all transactions incidental to it.

1.6 Governing Law and jurisdiction

This Deed is governed by the law of New South Wales. The Parties submit to the non-exclusive jurisdiction of its courts and courts of appeal from them. The Parties will not object to the exercise of jurisdiction by those courts on any basis.

1.7 Enforcement

(a) This Deed may be enforced by any Party in any court of competent jurisdiction.

(b) For the avoidance of doubt, nothing in this Deed prevents:

(i) a Party from bringing proceedings in the Land and Environment Court to enforce any aspect of this Deed or any matter to which this Deed relates; and

(ii) an Authority or the Council from exercising any function under the EP&A Act or any other Law relating to the enforcement of any aspect of this Deed or any matter to which this Deed relates.

1.8 No fetter

Nothing in this Deed is to be construed as requiring an Authority (including the Council) to do anything that would cause it to be in breach of any of its obligations at Law, and without limitation:

(a) nothing in this Deed is to be construed as limiting or fettering in any way the exercise of any statutory discretion or duty; and

(b) nothing in this Deed imposes any obligation on an Authority to:

(i) grant any Development Consent; or

(ii) exercise any function or power under the EP&A Act in relation to a change, or a proposed change, in an environmental planning instrument.

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1.9 Representations and warranties

Each Party each individually represents and warrants that:

(a) (**power**) it has power to enter into this Deed and comply with its obligations under the Deed;

(b) (**no contravention or exceeding power**) this Deed does not contravene its constituent documents (if any) or any law or obligation by which it is bound or to which any of its assets are subject, or cause a limitation on its powers or the powers of its officers to be exceeded;

(c) (**authorisations**) it has in full force and effect the authorisations necessary for it to enter into this Deed to which it is a party, to comply with its obligations and exercise its rights under this Deed and to allow this Deed to be enforced;

(d) (**validity of obligations**) its obligations under this Deed are valid and binding and are enforceable against it in accordance with the terms of the Deed;

(e) (**no immunity**) does not have immunity from the jurisdiction of a court or from legal process;

(f) (**benefit**) it benefits by entering into this Deed to which it is a Party; and

(g) (**capacity**) it does not enter this Deed as an agent for any other person or as trustee of any trust or on behalf or for the benefit of any other person.

Each Party acknowledge that each other Party has entered into this Deed to which it is a party in reliance on the representations and warranties in this paragraph 1.9 of this Schedule 12.

1.10 Severability

(a) If a clause or part of a clause of this Deed can be read in a way that makes it illegal, unenforceable or invalid, but can also be read in a way that makes it legal, enforceable and valid, it must be read in the latter way.

(b) If any clause or part of a clause is illegal, unenforceable or invalid, that clause or part is to be treated as removed from this Deed, but the rest of this Deed is not affected.

1.11 Modification

No modification of this Deed will be of any force or effect unless it is in writing and signed by the Parties as a Deed.

1.12 Waiver

(a) The fact that a Party fails to do, or delays in doing, something the Party is entitled to do under this Deed, does not amount to a waiver of any obligation of, or a breach of obligation by, another Party.

(b) A waiver by a party is only effective if it is in writing.

(c) A written waiver by a party is only effective in relation to the particular obligation or breach in respect of which it is given. It is not to be taken as an implied waiver of any other obligation or breach or as an implied waiver of that obligation or breach in relation to any other occasion.

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1.13 Confidentiality

The Parties agree that the terms of this Deed are not confidential and this Deed may be treated as a public Deed and exhibited or reported without restriction by any Party.

1.14 Release and indemnity

(a) The Contractor and the Land Owner each agree that the obligation to provide the Contributions is at the risk of the Contractor and the Land Owner (as applicable).

(b) The Contractor and the Land Owner each release the Council from any claim, liability or loss arising from, and Costs and Legal Costs incurred in connection with, the Contractor's and the Land Owner's obligation to provide the Development Contributions.

(c) The Contractor and the Land Owner each indemnify and will keep indemnified the Council from and against all claims, actions, demands, losses, damages, Costs and Legal Costs (**Loss**) incurred by the Council or for which the Council may become liable in connection with:

(i) the Council enforcing the Contractor's or the Land Owner's (as the case may be) obligation to provide the Contributions in accordance with this Deed; and/or

(ii) the Council exercising the Council's rights under or by virtue of this Deed, including the exercise or purported exercise of the rights of the Council' rights under paragraph 2.1 of Schedule 6,

except to the extent caused or contributed to by a negligent or wrongful act or omission of the Council or its officers, agents, employees, licensees or contractors contributed to the liability or where the Council has exercised its rights in breach of this Deed.

(d) The indemnity in paragraph 1.14(f) of this Schedule 13 is a continuing obligation, independent of the Contractor's or the Land Owner's other obligations under this Deed and continues after this Deed ends.

(e) It is not necessary for a Party to incur expense or to make any payment before enforcing a right of indemnity conferred by this clause 1.14.

(f) A Party must pay on demand any amount it must pay under an indemnity in this clause 1.14.

1.15 Mutual exclusion for Consequential Loss

(a) Subject to clause 1.15(b) of Schedule 13, but otherwise notwithstanding any other provision of this Deed (including any indemnity) no Party will be liable to any other party for any Consequential Loss suffered by a Party arising under or in connection with this Deed in respect of any claim.

(b) Clause 1.15(a) shall not operate to limit or restrict in any way any Parties' liability:

(i) for any debt or other amount payable to or recoverable by another Party under an express provision of this Deed, excluding, for the avoidance of doubt, any amount payable or recoverable under an indemnity;

(ii) for fraud;

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(iii) for any act or omission done or omitted to be done with the intention of causing substantially harmful consequence or with conscious indifference to the rights or welfare of those who are or may be affected;

(iv) to the extent that the relevant Party has:

A. recovered from a third party (including any subcontractor and whether by way or indemnity or otherwise); or

B. would have recovered from a third party, had it promptly claimed and diligently pursued a claim against a third party,

an amount in respect of that liability;

(v) to the extent such liability:

A. is covered by a policy of insurance in the relevant Party's name; or

B. would have been covered by a policy of insurance in the relevant Party's name but is not because that Party did not:

1) promptly claim and diligently pursue a claim under the policy of insurance; or

2) comply with the terms and conditions (including in respect of disclosure obligations) of that policy or insurance or its insurance obligations under this Deed; and

(vi) which by law cannot be limited or excluded.

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Schedule 14 - Costs

Contractor is to pay 100% of Costs and reasonable Legal Costs associated with the preparation and execution of this Deed up to an amount of $6,380.

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Schedule 15 - Pro-forma Novation Deed

Novation Deed

[*Planning Authority*]
Council

[*Land Owner*]
Land Owner

[*Contractor*]
Contractor

[Insert Transferee's name]
Transferee

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Novation Deed made at **on**

Parties [*insert*]
(**Council**)

[*insert*]
(**Land Owner**)

[*insert*]
(**Contractor**)

[**Insert Transferee's name**] of *[insert]* (**Transferee**)

Recitals

A The Council, the Contractor and the Land Owner are parties to the Original Agreement.

B The Original Agreement relates to the whole of the Land.

C The Transferor wishes to ***[insert details of the transfer]***.

This deed provides

1. Definitions and interpretation

1.1 Definitions

Continuing Party means [ ].

Effective Date means [*insert*].

Land has the meaning given to that term in the Original Agreement.

Original Agreement means the voluntary planning agreement dated [*insert*] and made between the Council, the Contractor and the Land Owner.

Transferor means *[insert]*.

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1.2 References to certain general terms

In this deed unless the contrary intention appears:

(a) a reference to this deed or another instrument includes any variation or replacement of them;

(b) a reference to a statute, ordinance, code or other law includes regulations and other instruments under it and consolidations, amendments, re-enactments or replacements of any of them;

(c) the singular includes the plural and vice versa;

(d) the word person includes a firm, body corporate, an unincorporated association or an authority;

(e) a reference to a person includes a reference to the person's executors, administrators, successors, substitutes (including, without limitation, persons taking by novation) and assigns;

(f) an agreement, representation or warranty on the part of or in favour of two or more persons binds or is for the benefit of them jointly and severally;

(g) a reference to any thing (including, without limitation, any amount) is a reference to the whole or any part of it and a reference to a group of persons is a reference to anyone or more of them;

(h) "include" in any form when introducing a list of items does not limit the meaning of the words to which the list relates to those items or to items of a similar nature; and

(i) capitalised terms which are used in this deed but are not otherwise defined have the meaning given to them in the Original Agreement.

1.3 Headings

Headings are inserted for convenience and do not affect the interpretation of this deed.

2. Novation

2.1 Original Agreement

Subject to clause 2.2 and with effect from the Effective Date:

(a) the Transferee is substituted for the Transferor as a party to the Original Agreement, and agrees to perform the all obligations and discharge all liabilities under the Original Agreement which, but for this deed, the Transferor would have been required to perform or discharge at and after the Effective Date;

(b) the Transferee will be bound by the Original Agreement, and will be entitled to the benefit of the Original Agreement which but for this deed the Transferor would have been entitled at and after the Effective Date, as if the Transferee was a party to the Original Agreement instead of the Transferor;

(c) the Continuing Party releases and discharges the Transferor from all obligations and liabilities, and from all obligations and liabilities under the Original Agreement to be performed or discharged at or after the Effective Date; and

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(d) the Transferor releases each/the Continuing Party from all obligations and liabilities under the Original Agreement to be performed or discharged at or after the Effective Date.

2.2 Liability before Effective Date

Notwithstanding clause 2.1, the Transferor and the Continuing Party are not released, relieved or discharged from any obligation or liability under the Original Agreement before the Effective Date, or any breach of any provision of the Original Agreement by the Transferor occurring before the Effective Date (to the extent that it is not remedied by the Effective Date).

3. Affirmation of the Original Agreement

The Original Agreement will be read and construed subject to this deed, and in all other respects the provisions of the Original Agreement are ratified and confirmed, and, subject to the variation and novation contained in this deed, the Original Agreement will continue in full force and effect.

4. GST

Where a supply made under this deed gives rise to a liability for GST, the consideration to be provided for that supply (other than under this clause) shall be increased by an additional amount equal to the GST payable on the supply. The additional amount must be paid, and the supplier must provide a tax invoice, at the same time as the other consideration for that supply is to be provided under this deed. Terms used in this clause have the meanings in the *A New Tax System (Goods and Services Tax) Act 1999*.

5. Stamp duty and costs

(a) The Transferor and the Transferee are jointly and severally liable for the Council's Legal Costs of and incidental to the negotiation, preparation and execution of this deed, and must reimburse the Council for such Legal Costs promptly on demand.

(b) The Transferee will pay all stamp duty arising directly or indirectly from this deed.

6. Further acts

(a) Each party will take all steps, execute all deeds and do everything reasonably required by any other party to give effect to any of the actions contemplated by this deed.

(b) This deed binds each party which signs it even if other parties do not, or if the execution by other parties is defective, void or voidable.

7. Governing law

This deed is governed by the law in force in the place specified in the New South Wales and the parties submit to the non-exclusive jurisdiction of the courts of that place.

8. Counterparts

This deed may consist of a number of counterparts and the counterparts taken together constitute one and the same instrument.

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Executed as a deed.

[*insert Appropriate execution clauses for the Council, Contractor and Land Owner*]

Executed by **[insert Transferee]** in accordance with section 127 of the *Corporations Act* by or in the presence of:

Signature of Secretary/other Director	Signature of Director
Name of Secretary/other Director in full	Name of Director in full

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Schedule 16 - Development Program

Contractor's indicative Development Program

Development Site/Area	Construction		Settlement	
	Commence	Complete	Commence	Complete
Development Site 7	Apr-23	Oct-25	Nov-25	Oct-26
Development Site 17	Apr-23	Oct-25	Nov-25	Oct-26
Development Site 18	Apr-23	Oct-25	Nov-25	Oct-26

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Schedule 17 - Not used

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Schedule 18 - Access Plan

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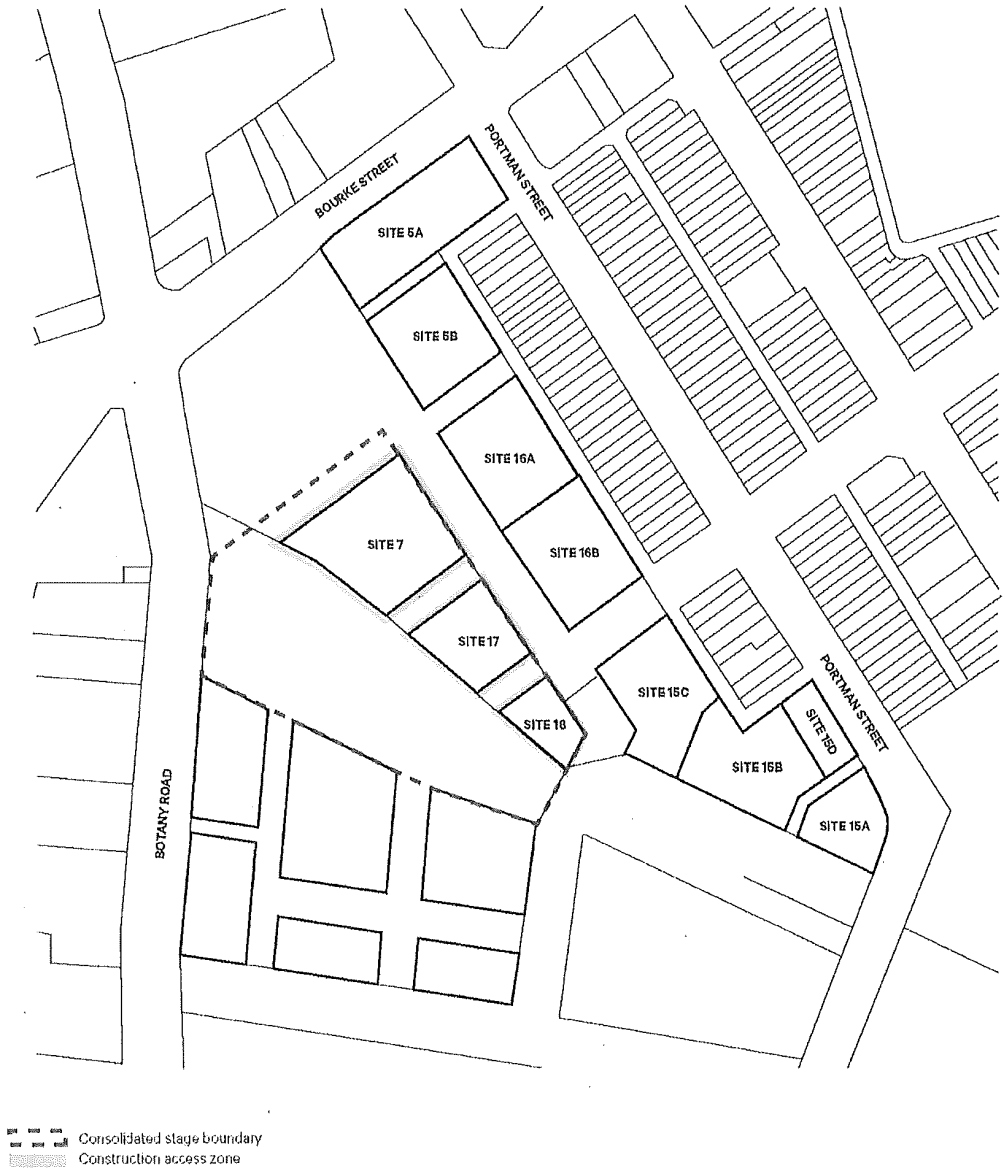
MAP4 - ACCESS PLAN
STAGE 3



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Schedule 19 - Allocation of Essential Infrastructure DA conditions

The Parties agree that the conditions in any consent to the Essential Infrastructure DA will be allocated as follows:

1. to the Contractor, all conditions, to the extent that those conditions are consistent with Table 3 of Schedule 3, relating to:
    a. the Stage 1 Remediation, including ongoing monitoring in accordance with clause 1.28 of Schedule 4;
    b. Earthworks relating to the Stage 1 Remediation on the Land; and
    c. any other conditions but only so far as they relate to the Stage 1 Remediation and earthworks relating to the Stage 1 Remediation on the Land.
2. to the Council, all other conditions including:
    a. all conditions required to be satisfied before the commencement of the Stage 1 Remediation; and
    b. all conditions to the extent that they relate to works required to be carried out that are in addition to the Stage 1 Remediation specifications contained in Table 3 of Schedule 3,

    but excluding any conditions which are the responsibility of the Contractor under paragraph 1 of this Schedule 19.

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Schedule 20 - GI Provisions

1. Interpretation

1.1 Definitions

The following words have the meanings given to them in this Schedule unless the contrary intention appears:

Australian Drinking Water Guidelines means the publication of the same name by the National Health and Medical Research Council and Natural Resource Management Ministerial Council (2011).

Australian Guidelines for Water Recycling means:

(a) the Australian Guidelines for Water Recycling: Managing Health and Environmental Protection Heritage Council, Natural Resource Management Ministerial Council and Australian Health Ministers Conference (2005); and

(b) Australian Guidelines for Water Recycling: Stormwater Harvesting and Reuse Phase 2 by the Environment Protection and Heritage Council, Natural Resource Management Ministerial Council and Australian Health Ministers Conference (2009).

BAU Works means the works, infrastructure and services that the Contractor may (at the Contractor's election) construct and install in a Building (other than the Contribution GI Works) in accordance with all relevant Approvals that provides for waste disposal, water supply, domestic hot water, heating and cooling systems in the Building without the Delivery and Connection of the Green Infrastructure.

Best Industry Practice means the exercise of that degree of professional skill, diligence, and prudence that reasonably would be expected from competent persons performing tasks and functions similar in nature to the Green Infrastructure Works and consistent with the Law.

Connection Commencement Date has the meaning given to that term in respect of Green Infrastructure in clause 7.

Connection Completion Date has the meaning given to that term in respect of Green Infrastructure nominated in clause 7.

Consequential Loss means any loss of profit, loss of revenue, loss of business opportunity or goodwill, loss of any contract or any indirect loss.

Contractor's First Notice, in respect of a Building, has the meaning given to that term in clause 5.1.

Contractor's Second Notice, in respect of a Building, has the meaning given to that term in clause 5.3.

Council Construction Period and **Council Construction Periods** means, in respect of a Building, the whole of the period during which it is intended that Council will construct, Deliver and Connect the relevant Green Infrastructure which:

(a) for Delivery, commences on the Delivery Commencement Date and ends on the Delivery Completion Date specified in this Schedule for that Green Infrastructure; and

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(b) for Connection, commences on the Connection Commencement Date and ends on the Commencement Completion Date specified in this Schedule for that Green Infrastructure.

DA Design means the detailed design for a Building (and not merely conceptual design or design studies) that will be submitted to the relevant Consent Authority as part of a Development Application for approval to construct and use that Building.

DA Expiry Date has the meaning given to this term in clause 5.5(a)(iii).

Delivery Commencement Date has the meaning given to that term in respect of Green Infrastructure in clause 7.

Delivery Completion Date has the meaning given to that term in respect of Green Infrastructure in clause 7.

Design Reports and Plans means, in respect of each Building, those reports and plans identifying the Contribution GI Works that have been, or will be, constructed.

Expected Completion Date means, in respect of a Building the date nominated by the Contractor in the Development Program provided by the Contractor to Council from time to time in accordance with the notice requirements of this Deed as the date by which the Contractor reasonably believes will be the Completion Date for that Building.

Green Infrastructure Delivery and Connection Arrangements means the arrangements for the Delivery and Connection of Green Infrastructure and Green Infrastructure Works contained in Annexure A to this Schedule, as amended from time to time in accordance with this Schedule.

Green Infrastructure Works means the works to be undertaken by Council and Council's contractors to construct the Green Infrastructure on the Site and Deliver and Connect the Green Infrastructure in accordance with this Schedule.

Liability in relation to a person, means any liability or obligation however it arises and whether it is present or future, fixed or unascertained, actual or contingent.

Loss includes any direct loss, damage, Liability, compensation, fine, penalty, charge, payment, cost or expense (including any legal cost and expense on a full indemnity basis) however it arises and whether it is present or future, fixed or unascertained, actual or contingent.

Site means the area within the Land on which the Green Infrastructure is to be constructed, Delivered and Connected in accordance with this Schedule.

2. Not used

3. Contract Term

3.1 Not used

3.2 Staged termination

(a) This Schedule ceases to have effect with respect to each Building in a staged manner on the Completion Date for that Building.

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(b) Notwithstanding paragraph (a), neither Party is released, relieved or discharged from:

(i) liability under this Deed in connection with a Building that arose before the Completion Date for that Building; or

(ii) any breach of any provision of this Deed by a Party occurring before the Completion Date for that Building (to the extent that it is not remedied by the Completion Date).

4. Parties' obligations and acknowledgement

4.1 Council's primary obligations

(a) Council will use its reasonable endeavours to enter into arrangements with a contractor for the construction of the Non-Potable Recycled Water Network:

(b) Provided Council has entered into an arrangement with a contractor for the construction of Green Infrastructure in accordance with paragraph (a), Council must (at Council's Cost) use Council's reasonable endeavours to Deliver and Connect the Green Infrastructure relevant to a Building within the relevant Council Construction Periods:

(i) in a proper and workmanlike manner;

(ii) using good quality materials, which must be suitable for the purpose for which they are required under this Schedule;

(iii) so that it is consistent with the Design Reports and Plans for the Contribution GI Works provided by the Contractor; and

(iv) in accordance with:

A. all Laws and any Approvals (including the Development Consent for the Building);

B. the Green Infrastructure Delivery and Connection Arrangements;

C. the Contractor's design for the Building and the Contribution GI Works;

D. without the use of asbestos;

E. Best Industry Practice;

F. relevant standards determined by Australian Standards Limited, the Building Code of Australia and any relevant manufacturers' standards; and

G. any other requirements of this Deed.

4.2 Contractor's and Land Owner's primary obligations

(a) Subject to clause 5.4, the Contractor must provide the Contribution GI Works in accordance with this Deed, including this Schedule, regardless of whether or not Council Delivers and Connects the Green Infrastructure.

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(b) The Contractor and the Land Owner must grant Council and its contractors access to that part of the Land reasonably required by Council to fulfil Council's obligations under this Deed in accordance with clause 9 of this Schedule.

4.3 Acknowledgements

The parties acknowledge that:

(a) the Contribution GI Works are to be carried out by the Contractor in accordance with this Deed, including the GI Connection Specification, irrespective of whether or not Council Delivers and Connects the Green Infrastructure (subject to clause 5.4);

(b) the Contractor may (but is not obliged to) install and commission the BAU Works in a Building in addition to the Contribution GI Works;

(c) subject to Council Delivering and Connecting the Green Infrastructure for a Building within the relevant Council Construction Periods, the Contractor and Land Owner must facilitate the connection of the Green Infrastructure by Council; and

(d) nothing in this Deed requires the Contractor or the Land Owner to proceed with construction of a Building or connect to the Green Infrastructure.

4.4 Communication

Notwithstanding the notification provisions of this Deed, in respect of each Building:

(a) the Contractor must keep Council reasonably informed of:

(i) the progress of the Contribution GI Works;

(ii) the Expected Completion Date;

(iii) the anticipated date of Practical Completion of the Contribution GI Works in respect of each Building; and

(iv) the relevant Delivery Commencement Dates, Delivery Completion Dates, Connection Commencement Dates and Connection Completion Dates; and

(b) Council must keep the Contractor reasonably informed of the progress of the construction of Green Infrastructure, including the anticipated date for the construction, Delivery and Connection of that Green Infrastructure to each Building.

4.5 Development Consent

(a) The parties acknowledge that notwithstanding the Contractor's obligation to provide the Contribution GI Works under clause 4.2(a) the Contractor may also include in the Development Application for each Building a request for approval for the design, construction and commissioning of the BAU Works in addition to the Green Infrastructure.

(b) The Contractor must advise Council whether the Development Consent allows for the use of:

(i) both the BAU Works and the Green Infrastructure;

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(ii) only the BAU Works; or

(iii) only the Green Infrastructure,

in the Contractor's Second Notice.

(c) Without limiting the obligations of the Contractor under clause 4.2(a) or the rights of the Contractor under clause 4.3(d):

(i) if the Development Consent allows for the use of both the BAU Works and the Green Infrastructure so that an Occupation Certificate can be obtained for the Building whether or not the Green Infrastructure is Delivered and Connected, the Contractor may design and construct the Building to provide for the BAU Works in addition to the Contribution GI Works subject to the requirements of the Development Consent, and this Deed;

(ii) if the Development Consent does not allow for the use of both the BAU Works and the Green Infrastructure so that an Occupation Certificate can be obtained for the Building only if the BAU Works are constructed and Delivery and Connection of the Green Infrastructure is not permitted, then Council cannot access the Land (including the Site and Building) for the purposes of Delivering and Connecting the Green Infrastructure to the Building prior to the Completion Date; and

(iii) if the Development Consent allows only for the use of the Green Infrastructure and not the BAU Works so that an Occupation Certificate can only be obtained for the Building if the Green Infrastructure is Delivered and Connected and the BAU Works are not permitted, then the Contractor may in accordance with its rights under clause 4.3(d) elect in the Contractor's Second Notice whether or not to proceed with construction of the Building in accordance with that Development Consent.

5. Contractor and Council Green Infrastructure notification provisions

5.1 Contractor's First Notice

For each Building, the Contractor must give a notice to Council (**Contractor's First Notice**) upon the Contractor commencing the DA Design for that Building, which notice:

(a) advises the following:

(i) the Contractor's expected construction program for the Building, including the following anticipated dates as they are programmed in the Contractor's expected construction program as at the date of the Contractor's First Notice:

A. the Expected Completion Date;

B. the date of Practical Completion of the Contribution GI Works in respect of each Building; and

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C. the relevant Delivery Commencement Dates, Delivery Completion Dates, Connection Commencement Dates and Connection Completion Dates;

(ii) the Contractor's expected Development Program for the remaining Buildings (to the extent this information is available to the Contractor as at the date of the Contractor's First Notice);

(iii) the proposed estimate of the number of dwellings in the Building;

(iv) the proposed estimate of the height of the Building; and

(v) the expected lodgement date of the Development Application for the Building; and

(b) may request other information that the Contractor reasonably requires of Council for the Contractor to progress the Contractor's DA Design.

5.2 Not used

5.3 Contractor's Second Notice

Following issue of a Development Consent for each Building and on or prior to a Construction Certificate being issued for that Building, the Contractor must give to Council a notice (**Contractor's Second Notice**) which notice advises:

(a) if the Building is proceeding to construction;

(b) any variations to the information provided in the Contractor's First Notice pursuant to clauses 5.1(a) and 5.1(a)(ii);

(c) whether the Development Consent allows for:

(i) the use of both the BAU Works and the Green Infrastructure so that an Occupation Certificate can be obtained for the Building whether or not the Green Infrastructure is Delivered and Connected;

(ii) the use only of the BAU Works so that an Occupation Certificate can be obtained for the Building only if the BAU Works are constructed and without the Delivery and Connection of the Green Infrastructure; or

(iii) the use only of the Green Infrastructure so that an Occupation Certificate can be obtained for the Building only if Green Infrastructure is Delivered and Connected and the BAU Works are not permitted; and

(d) all Design Reports and Plans for the Contribution GI Works in the possession of the Contractor at the date of the Contractor's Second Notice.

5.4 Council's Green Infrastructure Notice

(a) As soon as reasonably practicable after Council determines that the Non-Potable Recycled Water Network will never be Delivered to a Building in the Development (**Determination**), Council must give a Notice to the Contractor and the Land Owner advising that it does not intend to ever Deliver and Connect the Non-Potable Water Network to the nominated Building in the Development (**Green Infrastructure Notice**).

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(b) If Council gives a Green Infrastructure Notice to the Contractor and the Land Owner then, subject to clauses 5.4(d) and 5.5, the Contractor and the Land Owner will be relieved of their obligations under this Deed to provide that corresponding part of the Contribution GI Works relating to the Non-Potable Recycled Water Network for the Building specified in the Green Infrastructure Notice.

(c) Council may give a Green Infrastructure Notice at any time, but in any event, as soon as reasonably practicable after it has made a Determination.

(d) Nothing in this clause 5.4 relieves the Contractor of its obligations to provide the part of the Contribution GI Works relating to the space cooling system and air conditioning refrigerant in accordance with this Deed.

5.5 Council Withdrawal Notice

(a) If :

(i) Council gives the Contractor and the Land Owner a Green Infrastructure Notice; and

(ii) the Development Application for the Building specified in the relevant Green Infrastructure Notice or Contractor's First Notice (as the case may be) has not been lodged more than 18 months after the date of the Green Infrastructure Notice (**DA Expiry Date**),

then, Council may (in its absolute discretion) withdraw the Green Infrastructure Notice by giving the Contractor Notice (**Council Withdrawal Notice**) at any time up to the actual date of lodgement of the relevant Development Application for the Building specified in the Green Infrastructure Notice or Contractor's First Notice (as the case may be) in which case:

(iii) if a Green Infrastructure Notice for the Building has been issued, the Green Infrastructure Notice will cease to have any effect; and

(iv) notwithstanding clause 5.4(b), the Contractor and the Land Owner will not be relieved of their obligations under this Deed to provide that part of the Contribution GI Works relating to the Non-Potable Recycled Water Network for the Building specified in the Green Infrastructure Notice or Contractor's First Notice (as the case may be).

(b) The Contractor and the Land Owner acknowledge and agree that Council will not be liable to the Contractor or the Land Owner for any loss or damage suffered by the Contractor or the Land Owner as a result of the Council giving the Contractor and the Land Owner a Council Withdrawal Notice under clause 5.5(a).

(c) If on the date 60 days after the DA Expiry Date:

(i) the Contractor has not lodged the Development Application for the Building specified in the relevant Green Infrastructure Notice or Contractor's First Notice (as the case may be); and

(ii) Council has not given the Contractor a Council Withdrawal Notice,

then the Contractor must (at a time determined by the Contractor in the Contractor's absolute discretion) give Council another Contractor's First Notice for that Building and clauses5.3, 5.4 and 5.5 apply again in respect of that Contractor's First Notice.

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6. Contractor Green Infrastructure notification provisions

6.1 Not used

6.2 Non-Potable Recycled Water Network

(a) Prior to the issue of the Construction Certificate for a Building, and not less than 90 days prior to the relevant Delivery Commencement Date, the Contractor must give a Notice to Council advising:

(i) (**Non-Potable Recycled Water Room**) - the approximate size of the space in the Building that will contain part of the Non-Potable Recycled Water Network that may be Delivered and Connected by Council;

(ii) (**Flow Quality**) – the Contractor's requirements for flow in the Non-Potable Recycled Water Network for the approval of Council (not to be unreasonably withheld); and

(iii) (**Easement Sites**) - the approximate easement sites for the easements required to be created by the Contractor for the Non-Potable Recycled Water Network under Table 4 of the Contributions Schedule.

(b) The Contractor must provide Council with the Design Reports and Plans for the Contribution GI Works associated with the Non-Potable Recycled Water Network no less than 90 days prior to the relevant Delivery Commencement Date.

(c) The specifications for the Non-Potable Recycled Water Room, the Non-Potable Recycled Water Network and the easements sites contained in the notice in clause 6.2(a) must be in accordance with the specifications for those items contained in the GI Connections Specifications and must not be inconsistent with the arrangements in the Green Infrastructure Delivery and Connection Arrangements.

7. Delivery and Connection of Green Infrastructure

7.1 Not used

7.2 Non-Potable Recycled Water Network

(a) Council may only:

(i) Deliver the Non-Potable Recycled Water Network during the period commencing on the Delivery Commencement Date and ending on the Delivery Completion Date in the table in clause 7.2(e) below; and

(ii) Connect the Non -Potable Recycled Water Network during the period commencing on the Connection Commencement Date and ending on the Connection Completion Date set out in clause 7.2(e) below.

(b) The Contractor must facilitate Connection of the Non-Potable Recycled Water Network to the Non-Potable Recycled Water Network during the period commencing on the Connection Commencement Date and ending on the Connection Completion Date set out in clause 7.2(e) below.

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(c) If Council fails to Deliver the Non-Potable Recycled Water Network by the Delivery Completion Date then clauses 7.7 and 11.1 will apply.

(d) If Council Delivers the Non-Potable Recycled Water Network by the Delivery Completion Date, but fails to Connect the Non-Potable Recycled Water Network by the Connection Completion Date then clauses 7.7 and 11.1 will apply.

(e) Unless otherwise agreed by the Parties, the Delivery Completion Date and Connection Completion Date for the Non-Potable Recycled Water Network are as follows:

Green Infrastructure	Delivery Commencement Date	Delivery Completion Date	Connection Commencement Date	Connection Completion Date
Non-Potable Recycled Water Network	The later of: (a) the date the Contractor gives Notice to Council of the completion of construction of the car park structure; and (b) 7 months prior to the Expected Completion Date, but not less than 1 month prior to the Delivery Completion Date.	5 months prior to the Expected Completion Date.	Same as the Delivery Commencement Date.	Same as the Delivery Completion Date.

7.3 Not used

7.4 Not used

7.5 Not used

7.6 Not used

7.7 Failure to Deliver and Connect within the relevant Council Construction Periods

If Council has not, either:

(a) Delivered Green Infrastructure in a Building prior to the Delivery Completion Date as required under clause 7.2 ; or

(b) Connected Green Infrastructure prior to the Connection Completion Date as required under clause 7.2,

then:

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(c) Council must, on and from the Delivery Completion Date (if clause 7.7(a) applies) or on and from the Connection Completion Date (if clause 7.7(b) applies):

(i) suspend the construction, Delivery or Connection (as applicable) of that Green Infrastructure;

(ii) leave that part of the Building (including the Site) used and accessed by Council and Council's contractor for the purposes of construction, Delivery and Connection of Green Infrastructure under this Deed in a safe, clean and tidy condition; and

(iii) ensure that the Green Infrastructure and all other materials associated with the Green Infrastructure and Green Infrastructure Works are not visible external to the space provided in the Building for the Green Infrastructure; and

(d) Council cannot access the Land (including the Site and Building) prior to the Completion Date.

7.8 Indemnity

Subject to clause 14.2, Council indemnifies the Contractor and the Land Owner against any liability of the Contractor or Land Owner under the Home Building Act 1989 (NSW) for construction work undertaken on the Land to any owner or owners of the Land arising out of the Delivery and Connection of the Green Infrastructure by Council, except to the extent caused or contributed to by a negligent or wrongful act or omission of the Contractor, the Land Owner or their officers, agents, employees, licensees or contractors contributed to the liability.

8. Council Road Works

(a) Unless otherwise agreed by the Parties, Council must use its reasonable endeavours to construct and complete (except for minor defects or omissions) the Council Road Works in accordance with the Contractor's Development Program.

(b) Council acknowledges and agrees that:

(i) the Contribution Lands on which the Council Road Works are to be constructed will have been Remediated by the Contractor in accordance with this Deed, subject to the Contractor's obligations under this Deed in respect to the Contribution Lands; and

(ii) having regard to the dilapidation report in the Contractor's Remediation Statement, Council must maintain, and if removed or damaged by Council then replace, the capping installed by the Contractor.

9. Project Land

9.1 Land Owner and Contractor to grant Council access

(a) The Land Owner and Contractor grant to Council and Council's authorised representatives a non-exclusive licence, without payment of rent, licence fee or other occupation payment by the Council, to use and access that part of the Land, including the Site, that is:

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(i) owned or under the control of the Land Owner or Contractor from time to time; and

(ii) reasonably required by the Council and Council's authorised representatives for the purposes of satisfying Council's obligations under this Deed including:

A. the construction, Delivery and Connection of the Green Infrastructure; and

B. carrying out the Council Road Works.

(b) This licence immediately terminates in respect of any part of the Land which the Land Owner or Contractor no longer own or control.

(c) Council, when exercising its rights under the licence granted under this clause, must:

(i) cause as little damage as reasonably possible;

(ii) where any damage is caused, restore the Land and any improvements on the Land to their condition as at commencement of occupation by the Council and Council's contractors;

(iii) minimise disruption to the use of the Land, including use of the Land by the Land Owner, the Contractor (including the carrying out by the Contractor of the Contribution GI Works and the Development) and anyone else lawfully on the Land;

(iv) comply with the Contractor's work hours, lighting, insurance, work health and safety requirements (to the extent that these requirements do not infringe any Laws, do not have a material impact on the Development Program and are not inconsistent with any Approval (including the Development Consent) and the reasonable requirements of the Land Owner and Contractor under this Deed);

(v) comply with all reasonable directions of the Contractor or Land Owner's site co-ordinator;

(vi) comply with all relevant Laws including the *Work Health and Safety Act* 2011 and *Work Health and Safety Regulations* 2017; and

(vii) comply with any site awards or conditions as applicable.

(d) Council indemnifies the Contractor and the Land Owner from and against damage, loss, injury and death caused by the negligence, default or unlawful acts of Council or any of Council's contractors while accessing the Land, except to the extent caused or contributed to by a negligent or wrongful act or omission of the Contractor, the Land Owner or their officers, agents, employees, licensees or contractors contributed to the liability.

(e) Any request for access by Council to the Land Owner and Contractor must be in writing and must be made at least 5 Business Days prior to access being granted to Council.

(f) Council must ensure that Council's contractors do not breach this clause 9.1.

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(g) The Land Owner and the Contractor may, acting reasonably, instruct Council to remove a contractor of Council, equipment or materials from the Land, and may exclude that contractor from the Land in the case of breach of this clause 9.1.

(h) Council acknowledges that the Land Owner and the Contractor are not responsible for supervising or co-ordinating the Green Infrastructure Works, nor has the Land Owner or Contractor undertaken any obligation or assumed any duty of care in respect of the Green Infrastructure Works.

9.2 Cooperation of the parties

Without limiting clause 9.1, the parties each agree in exercising their rights under this Deed:

(a) to cause minimal disturbance and disruption to:

(i) the Green Infrastructure Works;

(ii) the Delivery and Connection by Council of the Green Infrastructure;

(iii) the construction by Council of the Council Road Works;

(iv) the carrying out by the Contractor of the Contribution GI Works and the Development; and

(v) anyone else who is lawfully entitled to be on the Land;

(b) if:

(i) Council accesses the Land for the purpose of constructing the Green Infrastructure or Delivering and Connecting the Green Infrastructure; or

(ii) the Land Owner or the Contractor access any part of Green Square (other than the Land) for the purpose of carrying out the Contribution GI Works,

to:

(iii) cause minimal disturbance and disruption to the Contractor's and Land Owner's use of the Land or Council's use of Green Square (other than the Land) (as applicable); and

(iv) comply with the Land Owner's and Contractor's or Council's reasonable site specific and work, health and safety protocols (as applicable); and

(c) to fully cooperate with other contractors working on the Site and not interfere with the other contractors to execute their work.

9.3 Security

In respect of each Building, until the Completion Date the Contractor must provide such security measures as are reasonably necessary for the protection of the Green Infrastructure located on the Site against theft, vandalism, unauthorised entry into the Site and any other unlawful acts.

9.4 Insurance

(a) Council must:

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(i) effect and maintain, or ensure that its contractors effect and maintain, in connection with the Green Infrastructure Works, contract works insurance, public liability insurance and workers compensation insurance as required by Law; and

(ii) provide to the Land Owner and Contractor, upon request, certificates of currency in respect of those insurances.

(b) To the extent that Council's contractors are not covered by the insurances of Council, Council must procure that Council's contractors comply with clause 9.4(a).

9.5 Easements

The parties acknowledge that:

(a) this Deed requires the Contractor to procure the grant to Council of easements over the Site for the purpose of constructing, Delivering and Connecting, operating and maintaining the Green Infrastructure; and

(b) if Council does not procure the construction of, or Deliver and Connect, the Green Infrastructure during the term of the licence granted under clause 9.1, Council may, subject to the terms of the easements, gain access to the Site pursuant to the easement in order to do so.

10. Work health and safety

10.1 Protection of persons and property

Council must:

(a) Deliver and Connect the Green Infrastructure; and

(b) ensure that its contractors construct, Deliver and Connect the Green Infrastructure on the Site,

safely and so as to avoid injury to persons and damage to property.

10.2 Work health and safety

(a) In this clause:

(i) "**WHS Legislation**" means legislation relating to health and safety at work including the *Work Health and Safety Act* 2011 (NSW) and the *Work Health and Safety Regulations* 2017 (NSW); and

(ii) the terms "**construction project**" and "**principal contractor**" have the same meanings assigned to those terms under the WHS Legislation.

(b) The parties acknowledge that:

(i) the Green Infrastructure Works and the Contribution GI Works constitute separate and distinct construction projects;

(ii) to the extent the Green Infrastructure Works is a construction project, Council is the principal contractor for the Green Infrastructure Works unless it engages another person or entity as Principal Contractor; and

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(iii) to the extent the Contribution GI Works is a construction project, the Contractor is the principal contractor for the Contribution GI Works unless it engages another person or entity as Principal Contractor.

11. Completion Date

11.1 Arrangements for Green Infrastructure

(a) If Council:

(i) is obliged to use its reasonable endeavours to Deliver and Connect any part of the Green Infrastructure under clause 4.1(b) and either:

A. Council fails to Deliver the Green Infrastructure by the relevant Delivery Completion Dates;

B. Council Delivers the Green Infrastructure by the relevant Delivery Completion Dates, but fails to Connect the Green Infrastructure by the relevant Connection Completion Dates; or

then the parties acknowledge that the owner or owners of the relevant Building or any part of the Building may, at its own Cost, utilise the town water (potable) through the pipes comprising the Non-Potable Recycled Water Network constructed by the Contractor in the Building.

11.2 After strata plan registration

The Council acknowledges and agrees that, following registration of the strata plan for a Building, the Land Owner will no longer be the registered proprietor of that part of the Land and, as a result:

(a) Council, the Land Owner and the Contractor cannot require the Owners Corporation to connect to the Green Infrastructure; and

(b) from the date of registration of the strata plan for each Building, Council can liaise with the Owners Corporation in respect of:

(i) if the Green Infrastructure has not already been Delivered and Connected prior to registration of the strata plan, the Delivery and Connection of the Green Infrastructure to the Building; and

(ii) the ongoing operation and maintenance of the Green Infrastructure.

12. Not used

13. Not used

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14. Limitation of liability

14.1 Not used

14.2 No warranty or liability

For the avoidance of doubt, the parties agree and acknowledge that:

(a) Council may never:

(i) enter into an arrangement with a contractor for the construction of the Green Infrastructure; or

(ii) Deliver and Connect the Green Infrastructure during the relevant Council Construction Periods;

(b) Council will not be liable to the Contractor or the Land Owner for any loss or damage suffered by the Contractor or the Land Owner as a result of Council failing to:

(i) enter into an arrangement with a contractor for the construction of the Green Infrastructure; or

(ii) Deliver and Connect the Green Infrastructure during the relevant Council Construction Periods; and

(c) the limitations in this clause 14.2 do not limit any liability of Council under clause 9.1(d); and

(d) Council does not make any representations or warranties regarding the provision of electricity to the Land.

15. Not used

16. Not used

17. Not used

18. Land Owner's additional obligations under this Deed

In the event that either:

(a) the Contractor's rights to develop the Land pursuant to the legal arrangements it has with the Land Owner as at the date of this Deed are terminated; or

(b) the Land Owner becomes solely liable to perform the rights and obligations of both the Land Owner and Contractor under this Deed,

then on and from the date of such termination or the date the Land Owner becomes solely liable to perform the rights and obligations of both the Land Owner and Contractor under this

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Deed, the Land Owner agrees to perform all the Contractor's obligations under this Schedule in accordance with this Deed as if it were the Contractor for the purposes of this Deed, until such time as alternative arrangements are agreed (and legally documented) between the Council and the Land Owner in respect of a new contractor potentially performing some or all of those obligations.

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Annexure A - Green Infrastructure Delivery and Connection Arrangements

1. Non-Potable Recycled Water Network

1	Deliver a pipe from the pipe network for non-potable recycled water in the street to the Non Potable Water Connection Point located in the Non-Potable Recycled Water Room.
2	Deliver pipes, metering equipment and isolation valves for Non-Potable Recycled Water in the Non-Potable Recycled Water Room and size the infrastructure to meet the connection point specified by the Contractor within the Non-Potable Recycled Water Room. and size the infrastructure to meet the Building's Non-Potable Recycled Water flow rate requirements specified by the Contractor, and as agreed by Council in the Contractor's Notice under clause 6.2(a) of this Deed.
3	If the potable water system has been connected to the Non-Potable Recycled Water Network in the Building carry out such work as are required to: a) disconnect that potable town water system from the Non-Potable Recycled Water Network in the Building; and b) Connect the non-potable recycled water system to the Non-Potable Recycled Water Network in the Building.
4	The non-potable recycled water supply in the Non-Potable Recycled Water Network is to have a pressure of a minimum of 15 m head at the property boundary
5	The non-potable recycled water supply in the Non-Potable Recycled Water Network is to have a quality that will comply with the Australian Guidelines for Water Recycling for use in toilets, washing machine taps, car wash bays, cooling towers and irrigation usage. The level of total dissolved solids shall be in accordance with the Australian Guidelines for Water Recycling and be less than 300ppm 95% of the time.
6	Council will offer the Contractor or the Building owner (which may be an Owners Corporation) (as the case may be) a contract for the delivery of non-potable recycled water. In the case of the Contractor, the contract for delivery of Non-Potable Recycled Water for each Building must expire on the Completion Date for that Building and must include rates no greater than the rates offered by Sydney Water for potable town water as at the date of Council's offer.

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Executed as a deed.

Executed by **The Council of the City of Sydney ABN 22 636 550 790** by ~~or in the presence of:~~ AN AUTHORISED DELEGATE IN ACCORDANCE WITH SECTION 377 OF THE LOCAL GOVERNMENT ACT 1993 (NSW)

Signature of ~~director~~ WITNESS

Name of ~~director~~ in full
WITNESS
456 KENT STREET, SYDNEY

Signature of ~~secretary/other director~~
AUTHORISED DELEGATE

Name of ~~secretary/other director~~ in full
AUTHORISED DELEGATE

Executed by **Mirvac Green Square Pty Ltd ACN 131 815 079** in accordance with section 127 of the Corporations Act 2001 (Cth):

Signature of director

Shanna Lyn Souter
Full name of director

Signature of company secretary/~~director~~

Michelle Favelle
Full name of company secretary/~~director~~

Signed for and on behalf of **Landcom (ABN 79 268 260 688** by its authorised signatory in the presence of:

See next page
Signature of witness

Full name of witness

Signature of authorised signatory

Full name of authorised signatory

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Signed, sealed and delivered for and on behalf of Landcom by its attorneys jointly under power of attorney Book 4794 No 700 dated 28 January 2022. By signing this document, each attorney certifies that they have no notice of revocation of such powers and authorities.

Signed in the presence of:

Signature of witness	Signature of attorney
Sylvia Kuzmiczenko	Robert Yu
Name of witness	Name of attorney
14/60 Station St E, Parramatta NSW 2150	Director, Legal
Address of witness	Position of attorney

Signed in the presence of:

Signature of witness	Signature of attorney
Sylvia Kuzmiczenko	Chris Clark
Name of witness	Name of attorney
14/60 Station St E, Parramatta NSW 2150	Senior Solicitor
Address of witness	Position of attorney

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Explanatory Note

Draft Planning Agreement

Under s7.4 of the *Environmental Planning and Assessment Act 1979*

Parties

The Council of the City of Sydney ABN 79 268 260 688 of 456 Kent Street Sydney NSW (**Council**)

Mirvac Green Square Pty Ltd ABN 131 815 079 of Level 26, 60 Margaret Street Sydney NSW (**Contractor**)

Description of the Land to which the Draft Planning Agreement Applies

Land means land comprised in Lot 6 in DP 1199427 and any lot created by Subdivision of that lot (including the Development Sites).

Description of Proposed Development

Development means the development and use of the Land as permitted by the LEP, including but not limited to subdivision, low, medium and high density residential housing, commercial development, retail development, car parking, roads, utilities, associated services and open space.

Summary of Objectives, Nature and Effect of the Draft Planning Agreement

Objectives of Draft Planning Agreement

The objective of the Draft Planning Agreement is to provide infrastructure, facilities and services to meet the Development, monetary contributions and dedication of land.

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Nature of Draft Planning Agreement

The Draft Planning Agreement is a planning agreement under s7.4 of the *Environmental Planning and Assessment Act 1979 (Act)*. The Draft Planning Agreement is a voluntary agreement under which development contributions are made by the Contractor for various public purposes (as defined in s7.4(2) of the Act).

Effect of the Draft Planning Agreement

The Draft Planning Agreement:

- relates to the carrying out by the Contractor of the Development,
- excludes the application of s7.11 and s7.12 of the Act to the Development,
- does not exclude the application of s7.24 of the Act to the Development,
- requires the payment of monetary contributions, the dedication of land and carrying out of works.
- is to be registered on the title to the Land,
- imposes restrictions on the Contractor transferring the Land or part of the Land or assigning an interest under the agreement,
- provides a dispute resolution method for a dispute under the agreement,
- provides that the agreement is governed by the law of New South Wales, and
- provides that the *A New Tax System (Goods and Services Tax) Act 1999* (Cth) applies to the agreement.

Assessment of the Merits of the Draft Planning Agreement

The Planning Purposes Served by the Draft Planning Agreement

The Draft Planning Agreement:

- promotes and co-ordinates of the orderly and economic use and development of the Land to which the agreement applies,
- provides land for public purposes in connection with the Development,
- provides and co-ordinates community services and facilities in connection with the Development,
- promotes ecologically sustainable development, and
- provides increased opportunity for public involvement and participation in environmental planning and assessment of the Development.

How the Draft Planning Agreement Promotes the Public Interest

The Draft Planning Agreement promotes the public interest by promoting the objects of the Act as set out in s1.3(a), (c) and (i) of the Act.

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For Planning Authorities:

How the Draft Planning Agreement Promotes the guiding principles for councils in section 8A of the Local Government Act 1993 (previously the Elements of the Council's Charter)

The Draft Planning Agreement promotes the elements of the guiding principles for councils by:

- providing services and facilities for the community,
- ensuring the public facilities provided by the Developer under the agreement are transferred to and managed by the Council or are otherwise subject to the Council's control,
- ensuring the Land is developed in a manner that is consistent with and promotes the principles of ecologically sustainable development,
- providing a means that allows the wider community to make submissions to the Council in relation to the agreement.

Whether the Draft Planning Agreement Conforms with the Authority's Capital Works Program

Yes. The Planning Agreement confirms with the Council's capital works program.

Whether the Draft Planning Agreement specifies that certain requirements must be complied with before issuing a construction certificate, subdivision certificate or occupation certificate

Yes, the draft Planning Agreement requires certain development contributions to be provided before the issuing of Part 6 Certificates.

Frances

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